

NOTES: UNLESS OTHERWISE SPECIFIED

1. ASSEMBLE PER 5870H127, EXCEPT PARAGRAPH 3.8.3 .
  2. MAXIMUM COMPONENT HEIGHT .38.  
EXCEPT L2,J12,02,03 & SOCKET (ITEM 32) .40
  - △ 3. MARK ASSEMBLY NO. IN APPROXIMATE LOCATION  
SHOWN ON BACK (SOLDER) SIDE PER 1241099P.
  4. FOR SCHEMATIC DIAGRAM, SEE ITEM I.
  5. COMPONENT MARKING WITHOUT ALPHANUMERIC PREFIX  
ARE DIODES.
  6. SOLID BAND ON DIODES AND VOLTAGE REGULATORS  
INDICATE CATHODE END.
  7. GENERAL WORKMANSHIP PER 10120300.
  - △ 8. CLIP PIN O1 OF U5 AND U6 FLUSH TO IC  
PRIOR TO INSTALLATION.
  - △ 9. U36 ITEM 231 AND U40 ITEM 191 TO BE INSTALLED  
AT PWA TEST.
  - △ 10. ORILL HOLE PUSH LEAD OF C50 NORTH THRU TO BACK: SOLDER  
TO Q4-14. SLEEVE LEAD OF C50-5, SOLDER TO GND BUSS.

H. SW1 ITEM 501 SHOULD BE INSTALLED  
WITH ALL SWITCH POSITIONS OPEN (OFF)

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RES	PL ITEM
R1	102
R2	101
R3	101
R4	161
R5	167
R6	108
R7	107
R8	162
R9	165
R10	100
R11	167
R12	166
R13	114
R14	115
R15	151
R16	151
R17	109
R18	109
R19	172
R20	138
R21	136
R22	122
R23	139
R24	142
R25	140
R26	140
R27	110
R28	148
R29	140
R30	166
R31	168
R32	168
R33	102
R34	97
R35	144
R36	140
R37	172
R38	145
R39	165
R40	189
R41	165
R42	169
R43	169
R44	141
R45	111
R46	178
R47	154
R48	143
R49	114
R50	114
R51	179
R52	180
R53	105
R54	153
R55	126

RES	PL ITEM
R56	153
R57	172
R58	129
R59	129
R60	120
R61	108
R62	117
R63	163
R64	164
R65	120
R66	120
R67	165
R68	-
R69	137
R70	142
R71	124
R72	141
R73	131
R74	130
R75	127
R76	167
R77	172
R78	127
R79	127
R80	113
R81	140
R82	144
R83	167
R84	162
R85	161
R86	162
R87	118
R88	101
R89	101
R90	161
R91	164
R92	167
R93	159
R94	125
R95	162
R96	173
R97	150
R98	169
R99	163
R100	181
R101	169
R102	118
R103	160
R104	119
R105	148
R106	146
R107	121
R108	132
R109	170
R110	-

RES	PL ITEM
R111	107
R112	167
R113	152
R114	158
R115	152
R116	157
R117	161
R118	157
R119	101
R120	-
R121	127
R122	151
R123	135
R124	104
R125	116
R126	116
R127	137
R128	126
R129	159
R130	171
R131	147
R132	118
R133	134
R134	158
R135	163
R136	172
R137	100
R138	99
R139	161
R140	112
R141	118
R142	113
R143	123
R144	174
R145	167
R146	105
R147	106
R148	127
R149	158
R150	160
R151	160
R152	161
R153	159
R154	181
R155	158
R156	165
R157	101
R158	107
R159	172
R160	94
R161	94
R162	94
R163	94
R164	94
R165	94
R166	94

CAP	PL ITEM
C1	86
C2	76
C3	77
C4	75
C5	87
C6	83
C7	83
C8	79
C9	82
C10	80
C11	94
C12	63
C13	63
C14	83
C15	83
C16	84
C17	81
C18	76
C19	85
C20	94
C21	89
C22	86
C23	93
C24	94
C25	91
C26	94
C27	93
C28	84
C29	94
C30	83
C31	70
C32	67
C33	74
C34	67
C35	71
C36	94
C37	94
C38	94
C39	72
C40	89
C41	69
C42	72
C43	-
C44	94
C45	94
C46	94
C47	94
C48	94
C49	94
C50	94

IC	PL ITEM
U1	15
U2	30
U3	37
U4	31
U5	11
U6	11
U7	20
U8	6
U9	36
U10	8
U11	26
U12	5
U13	22
U14	22
U15	16
U16	12
U17	40
U18	24
U19	21
U20	8
U21	6
U22	34
U23	35
U24	36
U25	-
U26	-
U27	37
U28	26
U29	18
U30	8
U31	10
U32	17
U33	17
U34	-
U35	14
U36	23
U37	33
U38	6
U39	27
U40	18
U41	9
U42	7
U43	13
U44	64

DIO	PL ITEM
CR1	48
CR2	-
CR3	45
CR4	45
CR5	45
CR6	48
CR7	48
CR8	45
CR9	49
CR10	44
CR11	45
CR12	45
CR13	45
CR14	47
CR15	45
CR16	45
CR17	45
CR18	45
CR19	47
CR20	45
CR21	45
CR22	45

CONN	PL ITEM
J1	64
J2	55
J3	-
J4	-
J5	-
J6	59
J7	56
J8	60
J9	-
J10	62
J11	-
J12	52
J13	56

IND	PL ITEM
L1	65
L2	66

TSTR	PL ITEM
O1	-
O2	43
O3	42
O4	41

SHCH	PL ITEM
SH1	50

A

JUMP	PL ITEM
H1	190

B

C

D

E

F

G

H

I

J

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L

M

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O

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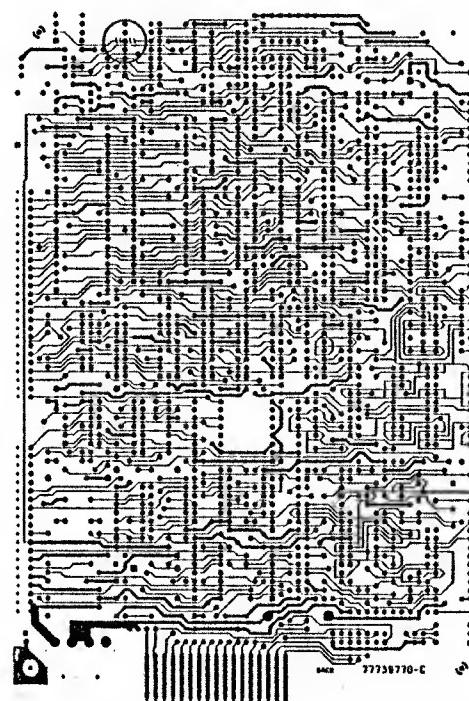
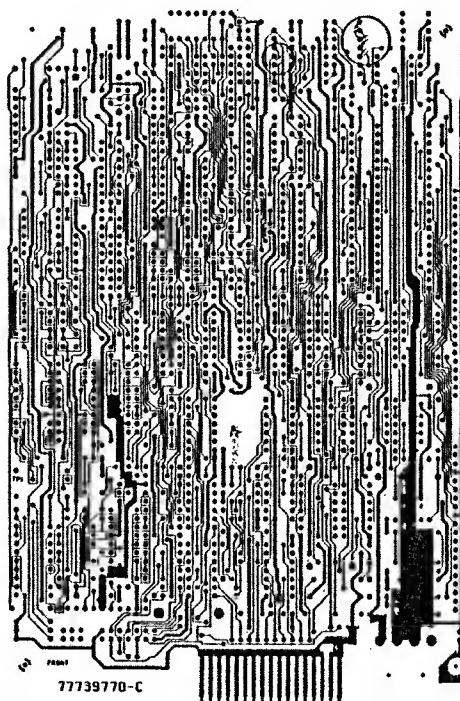
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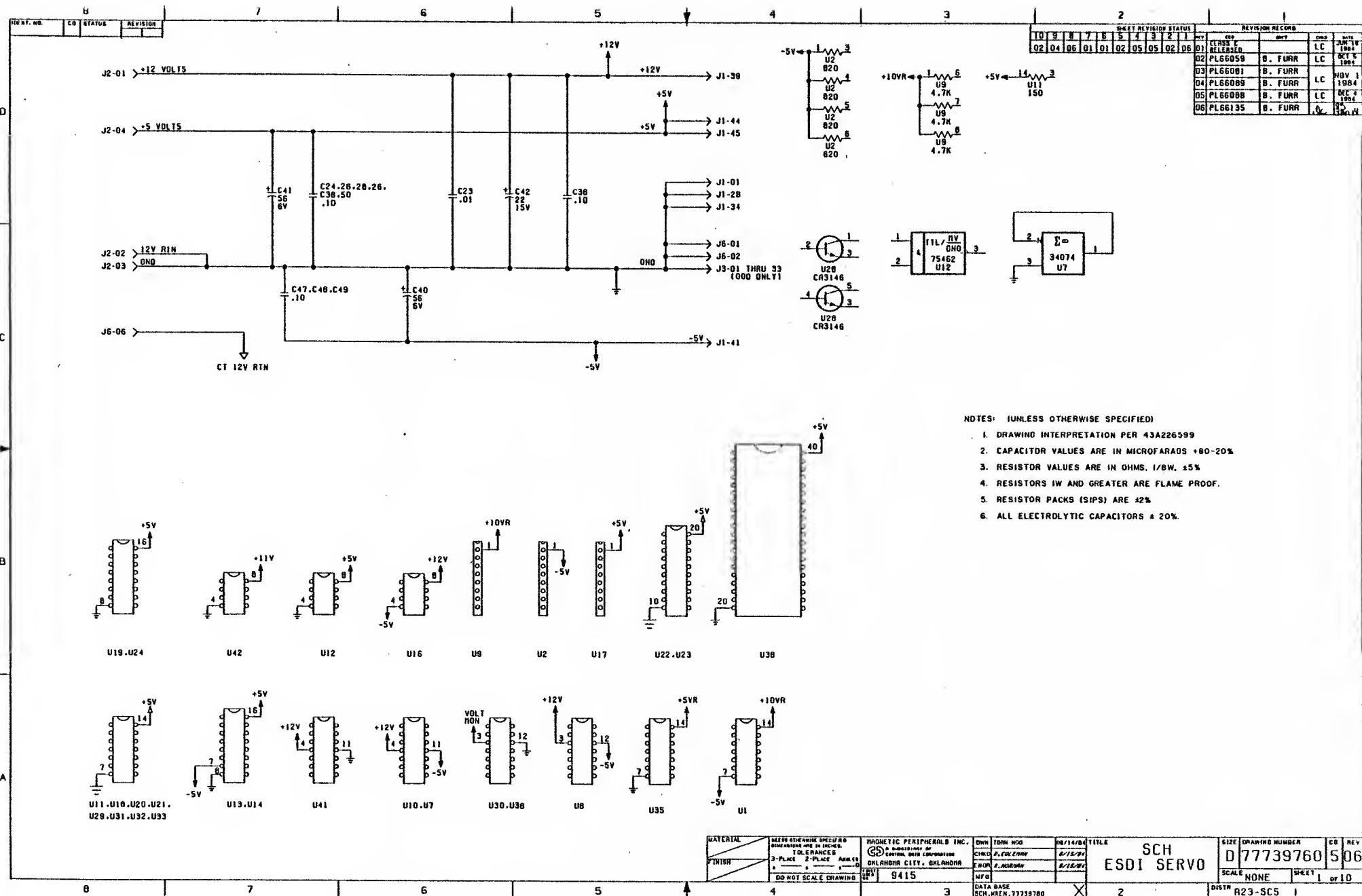


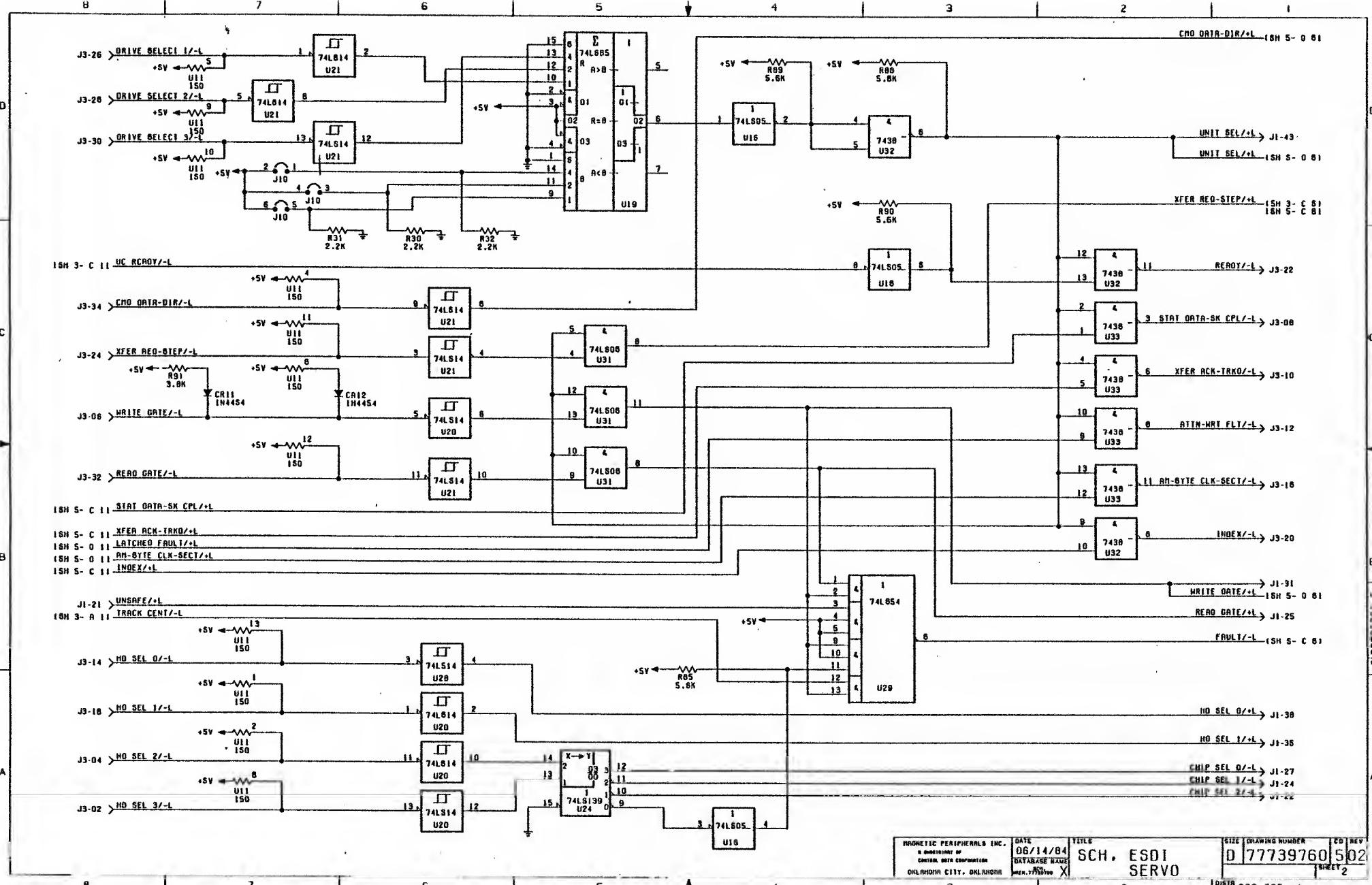
VERIFY CONNECTIONS	
FROM	TO
R158-S	C32+(W)
R158-N	U30-5
R159-N	R158-N
R159-S	U30-01
GND	U44-14(15V)
U44-14(15V)	GND

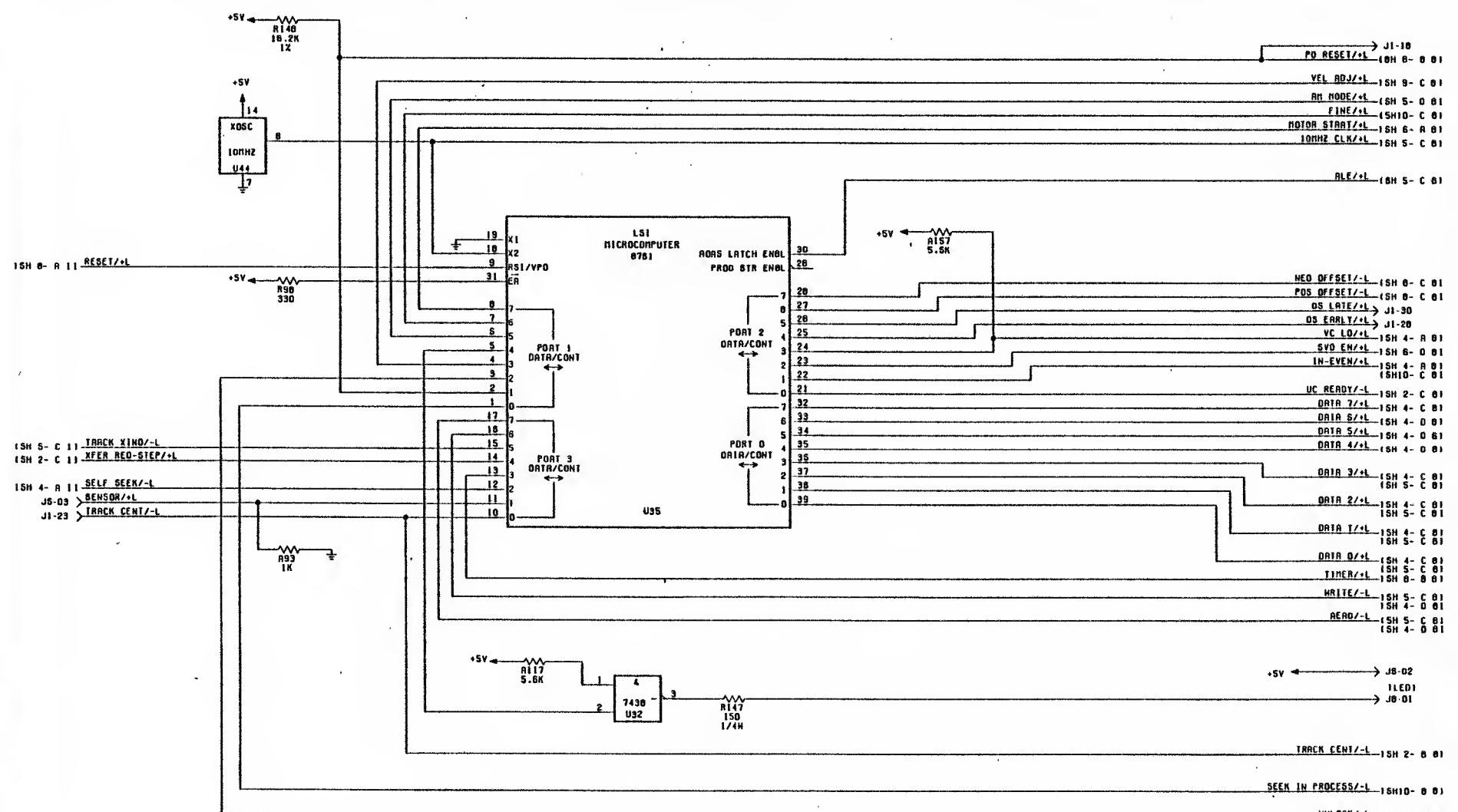
JUMPER LIST	
FROM	TO
U38-04	U38-07
U38-10	U38-07
U38-04	U43-02
U38-05	U38-06
U38-06	R156-W
U7 - 1	U7 - 2
U7 - 3	C48-E(GND)

TOTAL CUT RUNS 6

MATERIAL THICKNESS	Unless otherwise specified, dimensions are in inches. TOLERANCES 2 Place 3-Point Angle 1 - 2 - 1	GD MAGNETIC PERIPHERALS INC 1100 North Data Center OKLAHOMA CITY OKLAHOMA 10028	DRAWING NO. WREN II	FIELD MFG	PWA ESDI SERVO	SIZE D 77739750 6/05
DO NOT SCALE DRAWING	FIRST REVISION DATE	2	A23-AY5	SCALE 3 x 3	REV A	

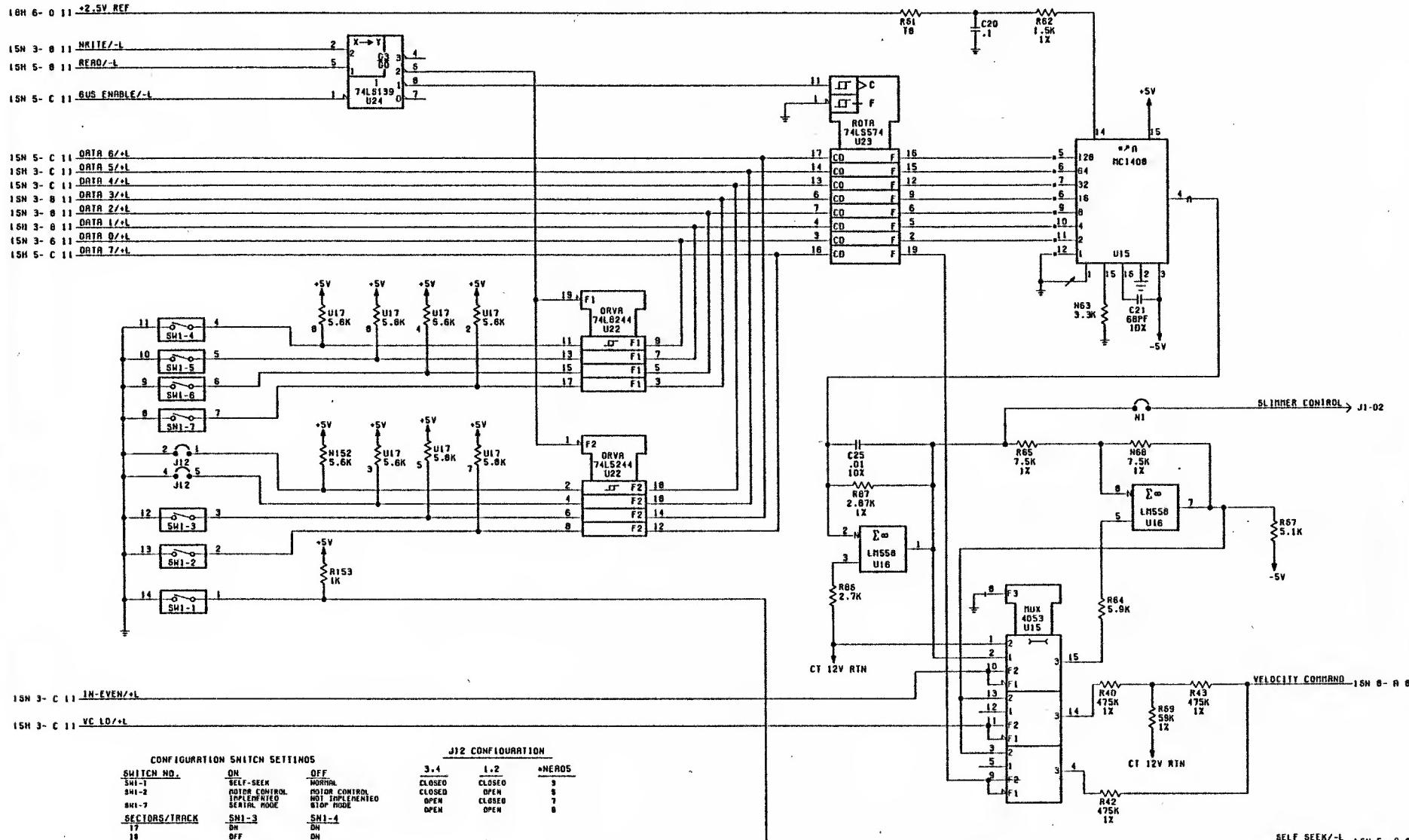






MAGNETIC PERIPHERAL INC. A Division of CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA MCHN.77729798	DATE 06/14/84 DATABASE NAME SCH. ESDI SERVO	TITLE SCH. ESDI SERVO	SIZE D 77739760 505	CD REV SHEET 3
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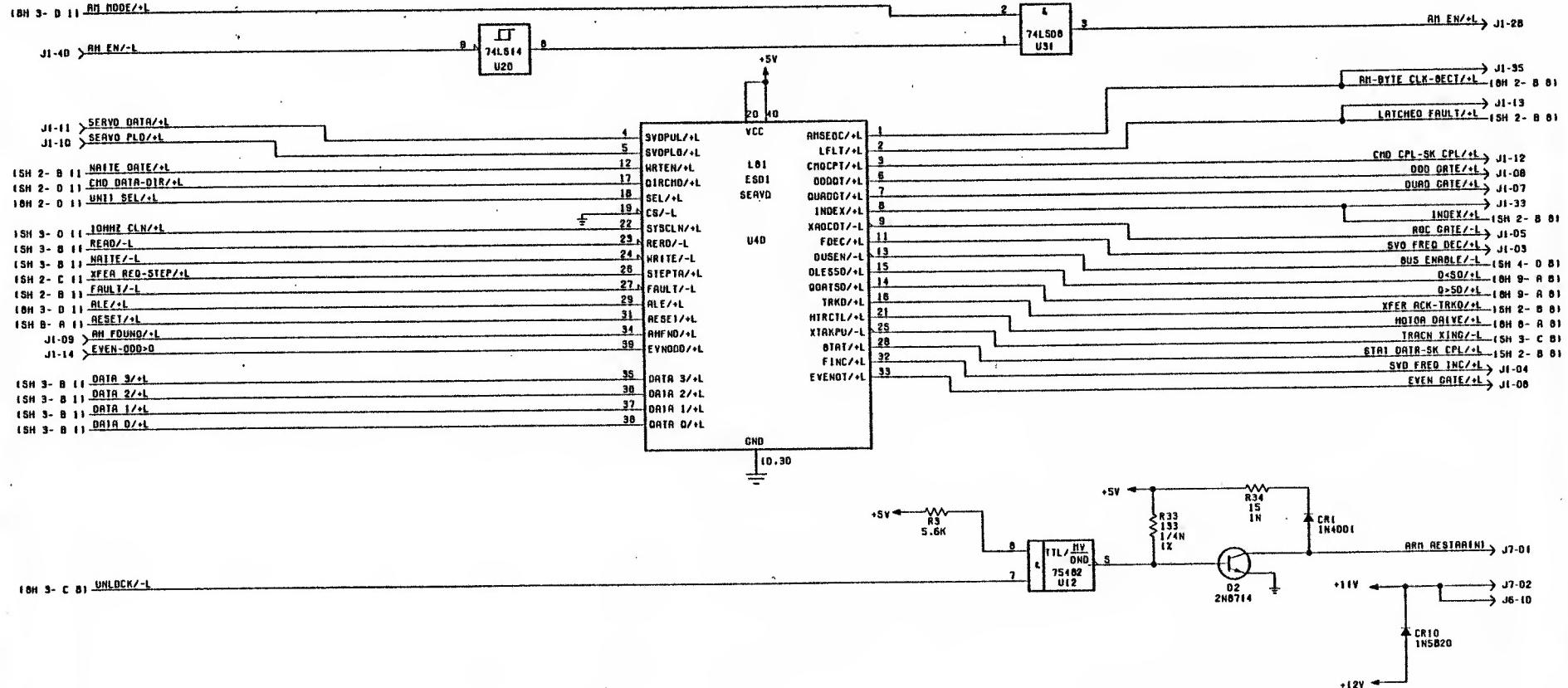
DISTR A23-SC5 1



MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
COMPAQ DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
PHONE: 405/232-1100 X

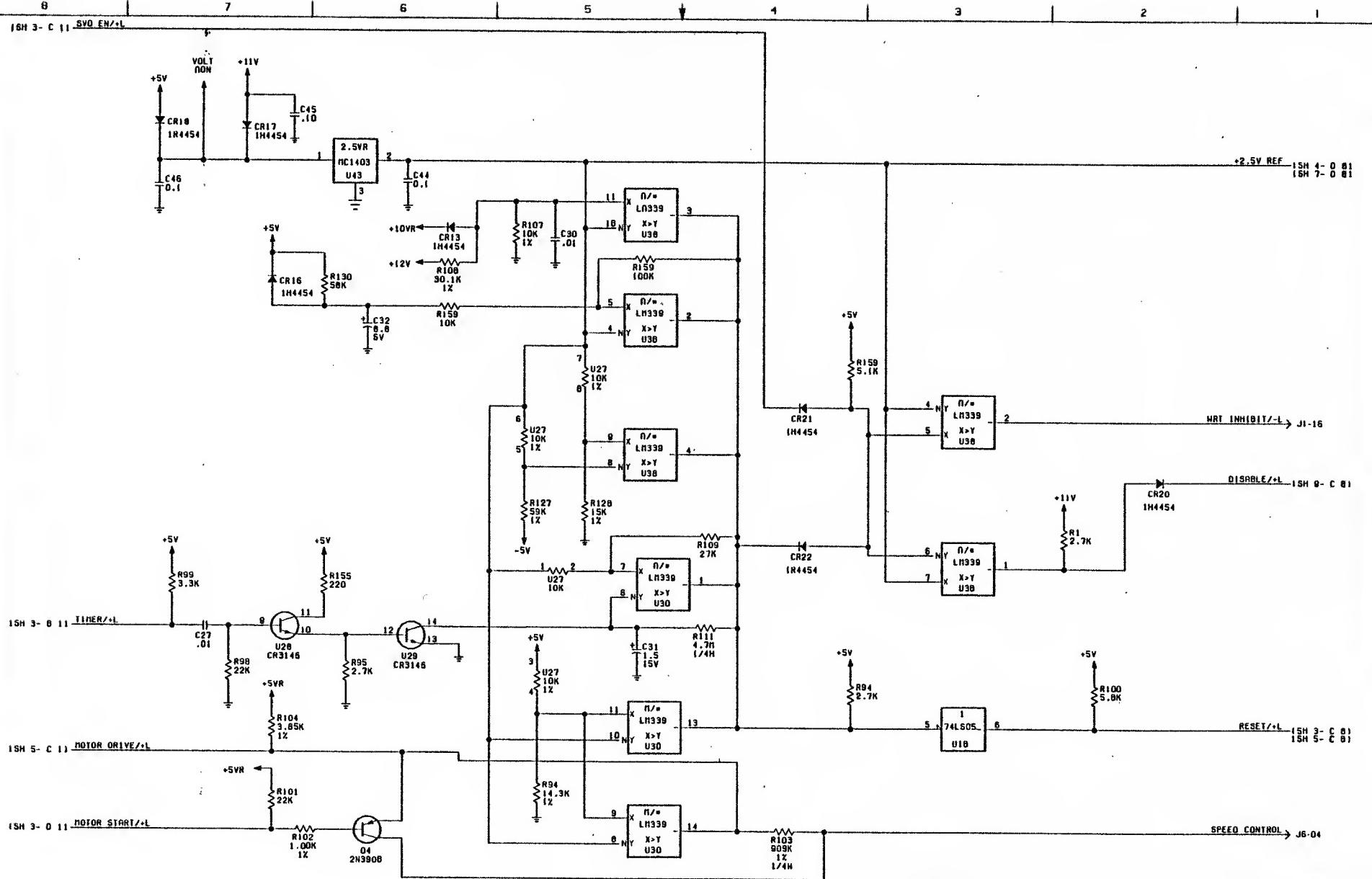
DATE 06/14/84 TITLE SCH. ESDI SERVO  
DATABASE NAME INDEX 77739760 CO 505  
REV. 4

DISTR R23-SC5 1

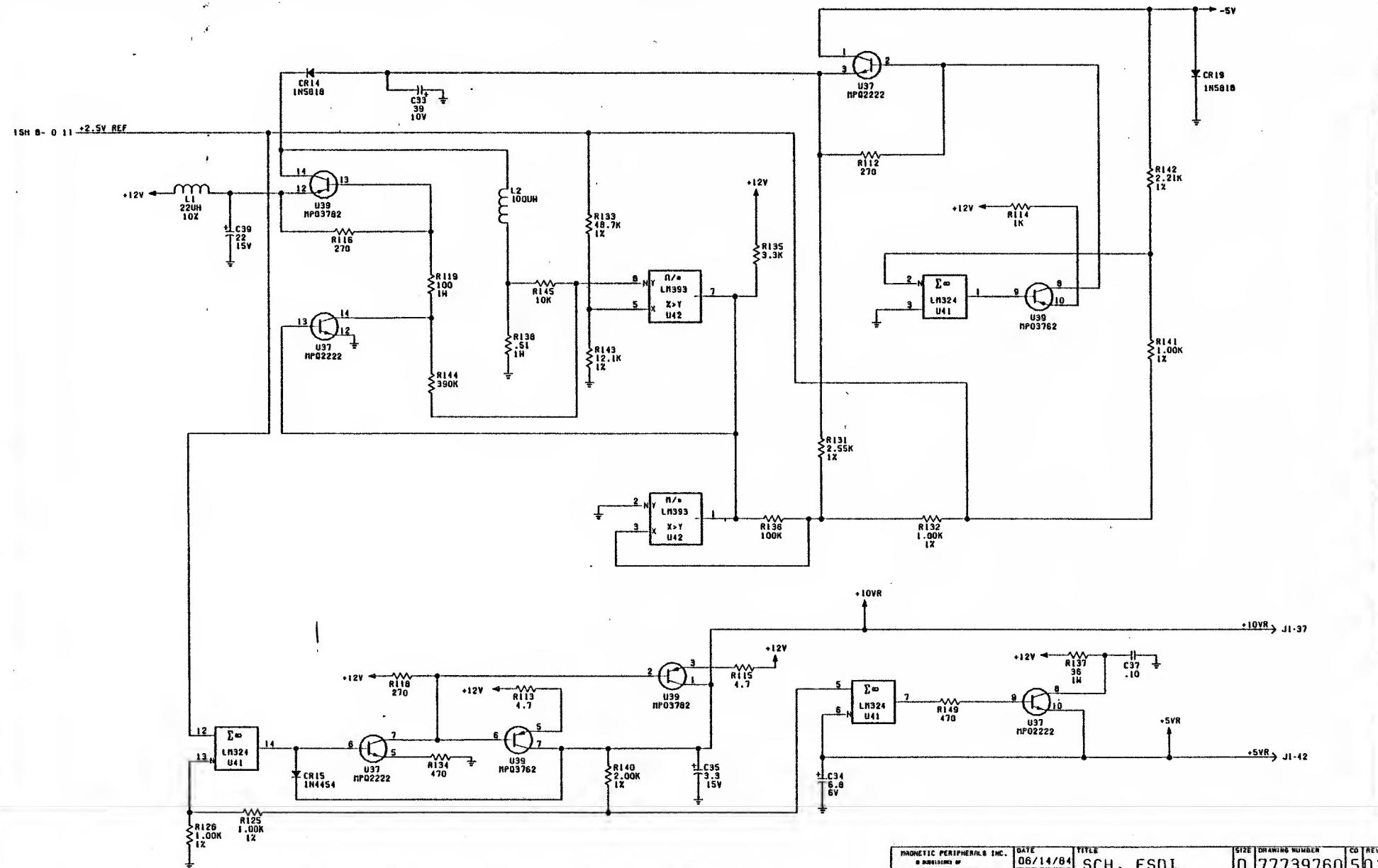


NETSCOMIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA MURKIN, 1984	DATE 06/14/84 DATABASE NAME SERVO	TITLE SCH. ESDI SERVO	SIZE D 77739760 502	CD REV 5
--	--	-----------------------------	------------------------	-------------

DISTR R23-SC5 1



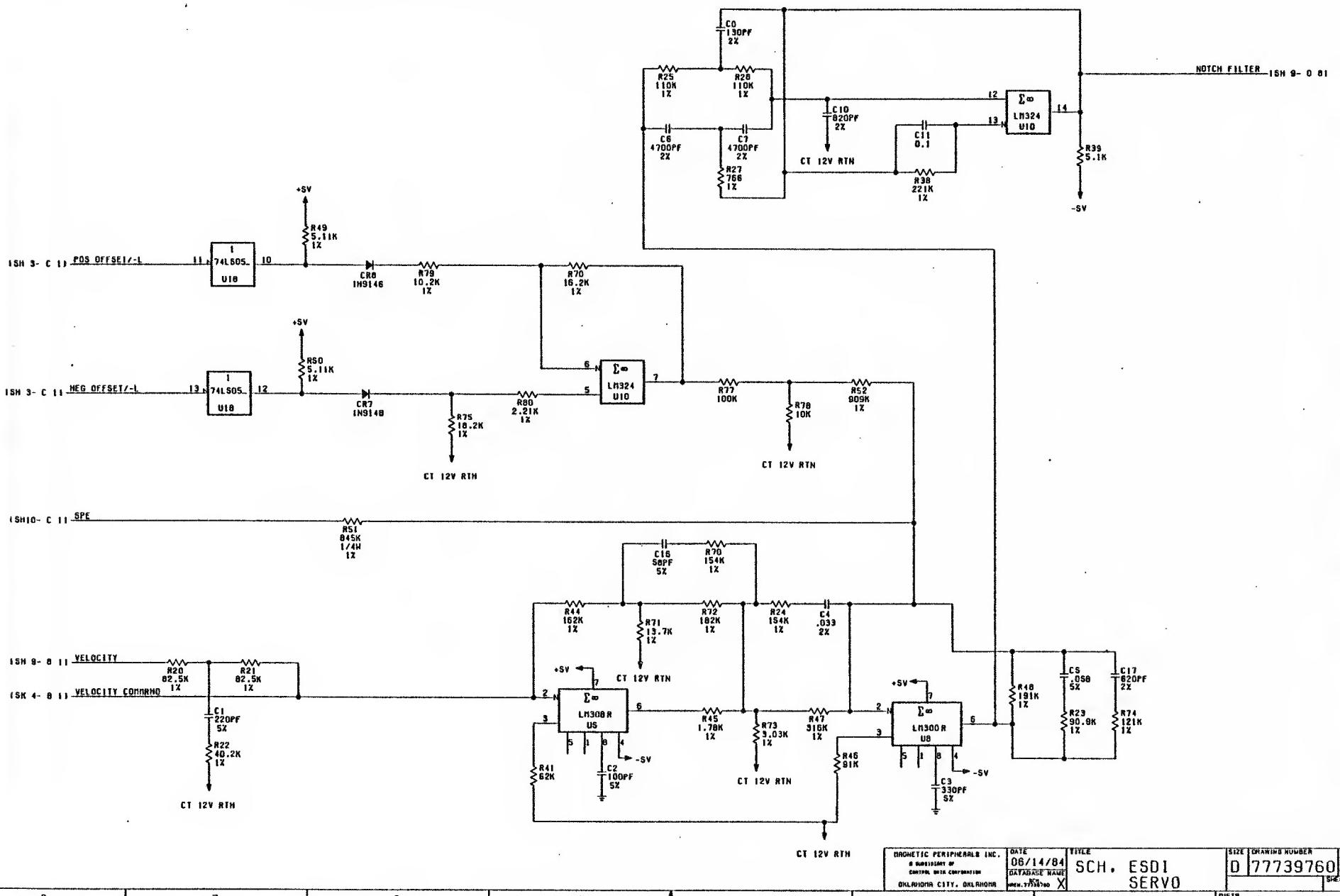
MAGNETIC PERIPHERALS INC.		DATE	REV.	SIZE	DRAWING NUMBER	CD REV.
A SUBSIDIARY OF CONTROL DATA CORPORATION		06/14/84	SCH. ESDI SERVO			
OKLAHOMA CITY, OKLAHOMA		DATABASE NAME		D	77739760	501
		REC'D. 7/7/84				SHEET 6



MAGNETIC PERIPHERALS INC.  
8 MEMBERS OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
DATE 06/14/84  
DATAFILE NAME K01  
FILE #0A1-77739760  
TITLE SCH. ESDI SERVO  
SIZE D DRAWING NUMBER 77739760 CO 01 REV  
SHEET 7

D 77739760 501

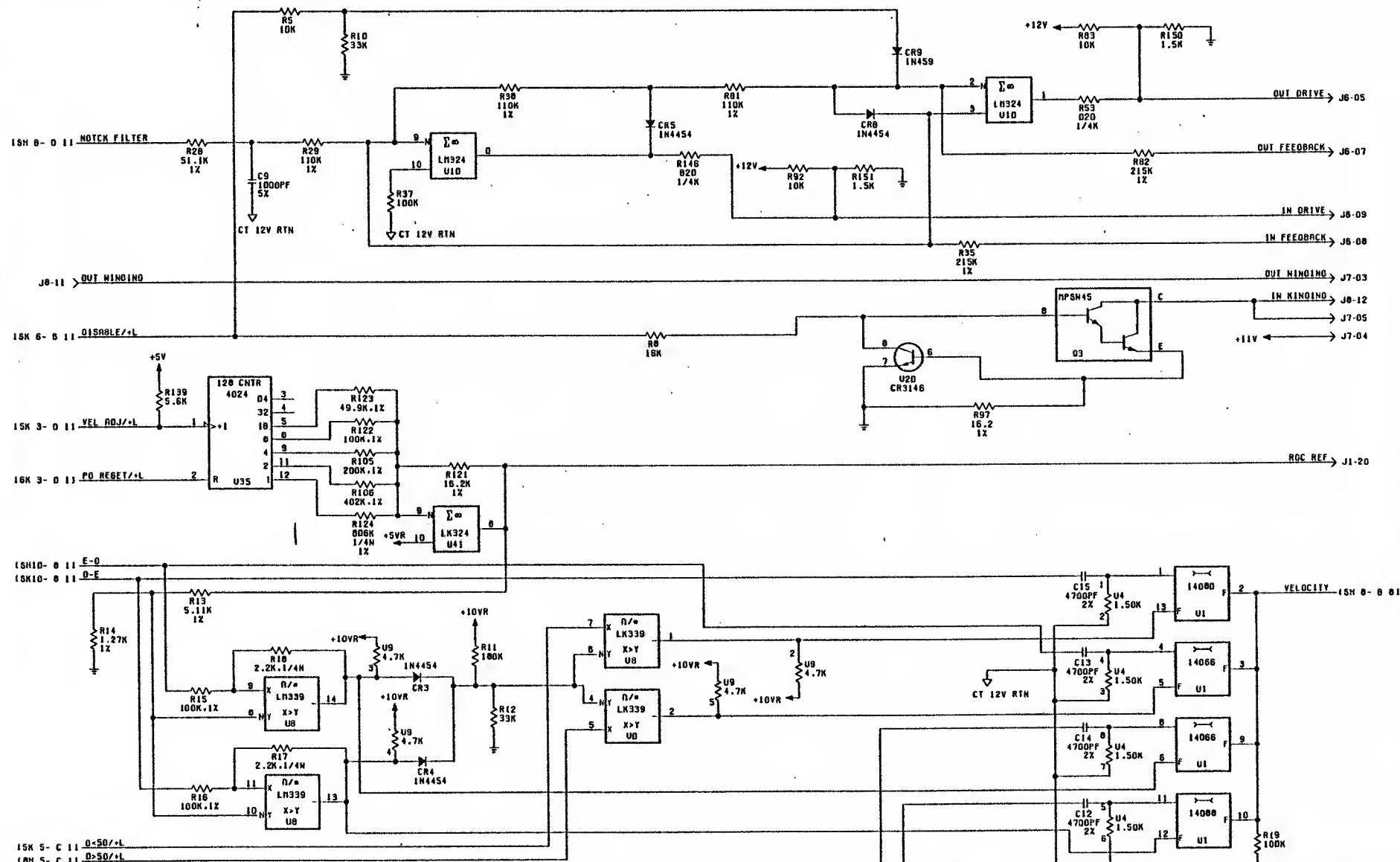
DISTR A23-SC5 1



MAGNETIC PERIPHERALS  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAH.

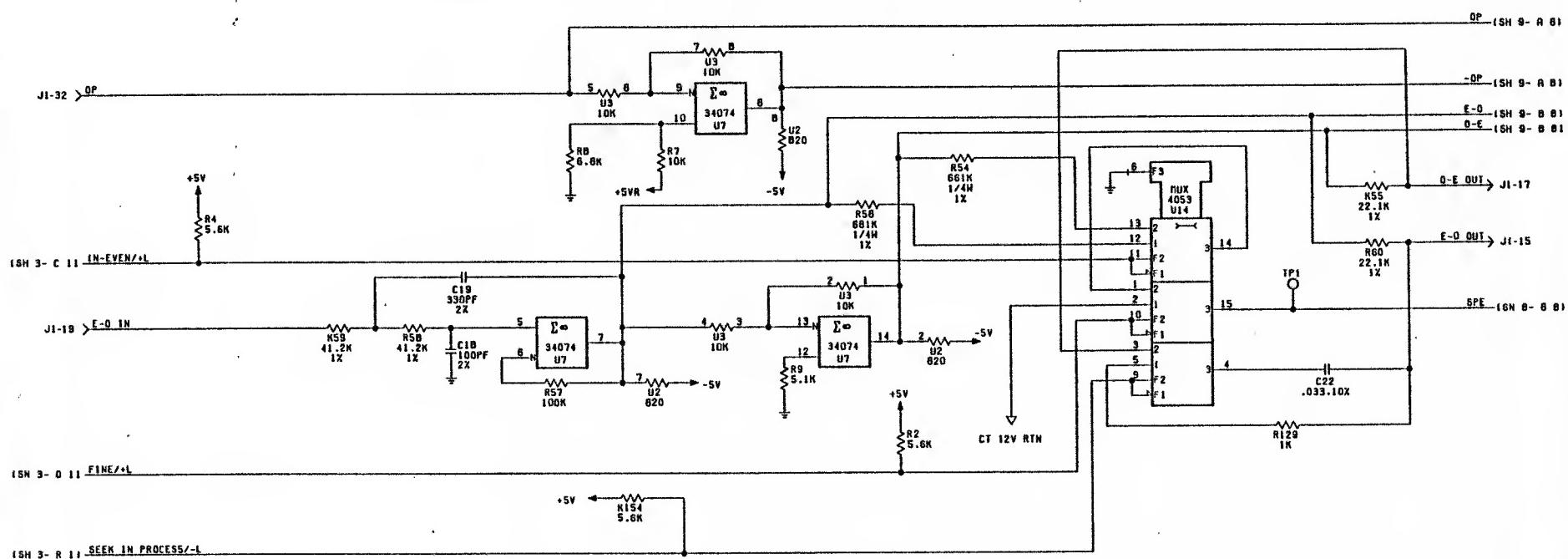
	TITLE
84 NAME X	SCH. ESDI SERV

	SIZE	DRAWING NUMBER	CO	REV
	D	77739760	506	
			SHEET	8



MINNETIC PERIPHERALS INC. A SUBSIDIARY OF COMPUTER DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DATE 06/14/84	TITLE SCH. ESDI SERVO	SIZE D	DRAWING NUMBER 77739760/504
	DATA BASE NAME MEN-77739760		CD REV X	SHEET 9

DISTR A23-SC5 1



INROMETIC PERIPHERALS INC. A DIVISION OF COMPAQ DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DATE 06/14/84	FILE SCH. ESDI SERVO	SIZE D 77739760 502	CD REV
	DATABASE NAME SCM REV. 77739760			

DISTR A23-SC5 1

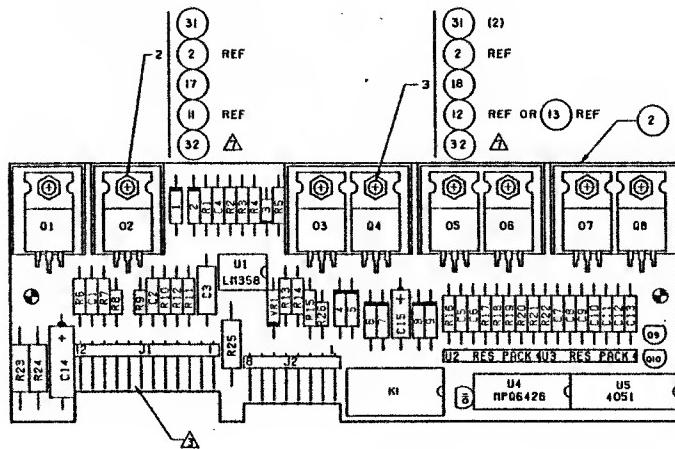
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1

ITEM NO. C/U STATUS REVISION

SHEET REVISION STATUS REVISION RECORD

REV X EDW MPP CHW DATE

FOR DOCUMENT STATUS SEE REVISION STATUS SHEET



RES	PL	ITEM	CAP	PL	ITEM	TSTR	PL	ITEM	D10	PL	ITEM	IC	PL	ITEM
R1	20		C1	20		O1	11		CRI	15		U1	6	
R2	28		C2	20		O2	11		CR2	15		U2	8	
R3	28		C3	35		O3	13		CR3	16		U3	9	
R4	40		C4	21		O4	12		CR4	41		U4	7	
RS	28		C5	21		O5	13		CR5	41		US	5	
R6	28		C6	21		O6	12		CR6	41				
R7	29		C7	21		O7	13		CR7	41				
R8	27		C8	20		O8	12		CR8	41				
R9	27		C9	20		O9	14		CR9	41				
R10	34		C10	20		O10	14							
R11	38		C11	20		O11	10							
R12	26		C12	20										
R13	38		C13	20										
R14	38		C14	19										
R15	39		C15	42										
R18	38					VOLT	PL	ITEM						
R17	30					REGU	PL	ITEM						
R18	30					VRI	PL	ITEM						
R19	30													
R20	30													
R21	30													
R22	30													
R23	24													
R24	24													
R25	25													
R26	43													
						RELAY	PL	ITEM	KI	37				

MATERIAL	UNLESS OTHERWISE SPECIFIED DIVISIONS ARE IN INCHES. TOLERANCES 3-PLACE    4-PLACE    ANKLES	CD	03-15-84	TITLE	PWA	SIZE	DRAWING NUMBER	CD	REV
FINISH	CD	03-26-84	URIE EVANS	MOTOR	D	77760550	203		
	CHGD O. COLEMAN			CONTROL					
	XREF STEVEN HOLBROOK			DATA					
	MFG			WREN II					
DO NOT SCALE DRAWING	DATA BASE								
	DWG.WREN.77760550	X							

8 7 6 5 4 3 2 1  
03TR R23-R15 1 2 3 4 5 6 7 8

IDENT. NO.

CD

STATUS

REVISION

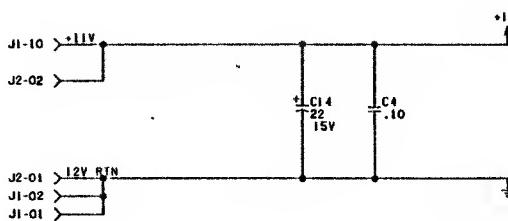
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SHEET REVISION STATUS

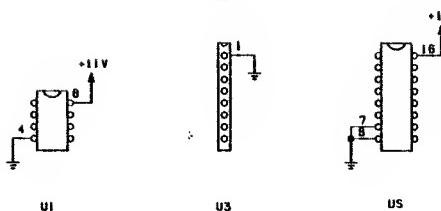
REVISION RECORD

3	2	1	REV	ISSUE	DRAW	DATE
01	01	01	0	CLASS E RELEASED	J-A	3/2/84



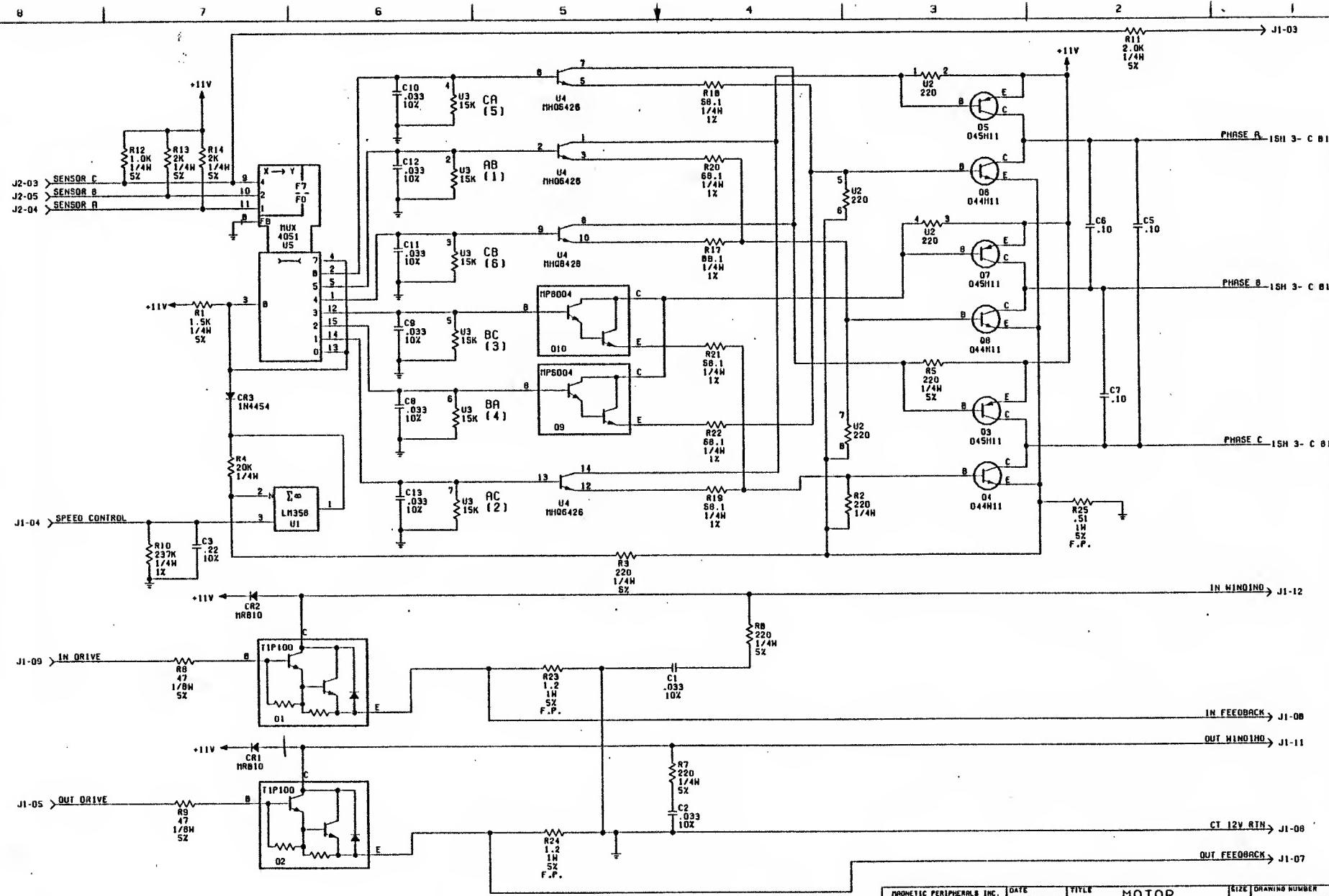
## NOTES: (UNLESS OTHERWISE SPECIFIED)

1. DRAWING INTERPRETATION PER 43A226599
2. CAPACITOR VALUES ARE IN MICROFARADS +80-20%
3. RESISTOR PACKS (SIPS) ARE 42%
4. RESISTOR VALUES ARE IN OHMS.
5. PHASE AND SENSOR SEQUENCE IS A,B,C.  
SENSOR OPCODE SEQUENCE IS 5,1,3,2,6,4 FOR  
PHASE DECODES OF AB,AC,BC,BA,CA,CB.



MATERIAL	ASSEMBLY OTHERWISE SPECIFIED DIMENSIONS IN INCHES & MM. TOLERANCES 3-PLACE 2-PLACE ANGLES	INDUSTRIAL DIVISION OF MAGNETIC PERIPHERALS INC. OKLAHOMA CITY, OKLAHOMA	DNK	ROW FURN	03-07-84	TITLE	SCH.	SIZE	DRAWING NUMBER	CD	REV
FINISH	6	CHNG EQUIP MFG	03-07-84	03-07-84	03-07-84		MOTOR CONTROL	D	77760560	1	01
DO NOT SCALE DRAWING			REV	HREN II	03-07-84			SCALE	NONE	SHEET	1 of 3

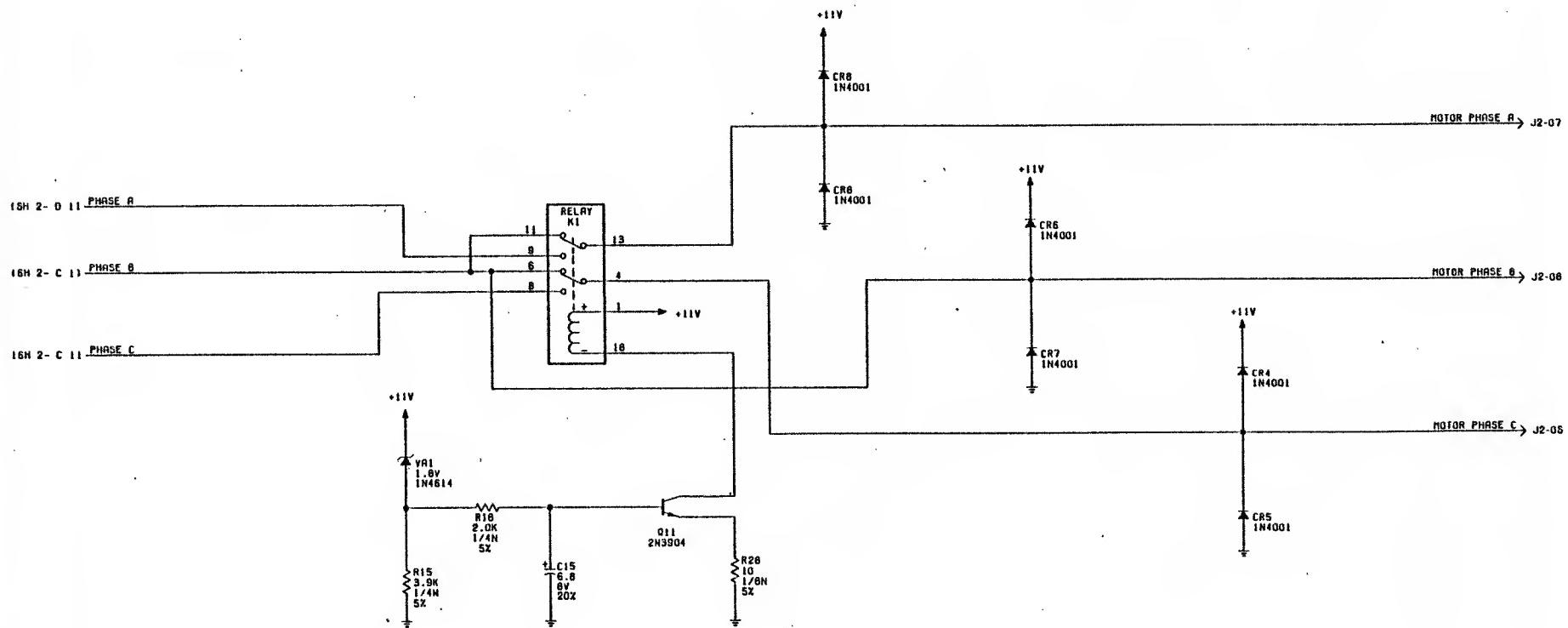
8 7 6 5 4 3 2 1 D 0 C B A



MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA MEN-77760560	DATE 03-07-84 DATABASE NAME MEN-77760560	TITLE SCH. MOTOR CONTROL	SIZE DRAWING NUMBER 0 77760560 1 01 REV CD SHEET 2
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DISTRA A23-SC5 1

D 7776056



MAGNETIC PERIPHERALS INC. A Division of COMIN, DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DATE 03-07-84 DATABASE NAME SCH. MEN. 77760560	TITLE SCH., MOTOR CONTROL	SIZE D 77760560 101 SHEET 3 F
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DISTR A23-SC5 1

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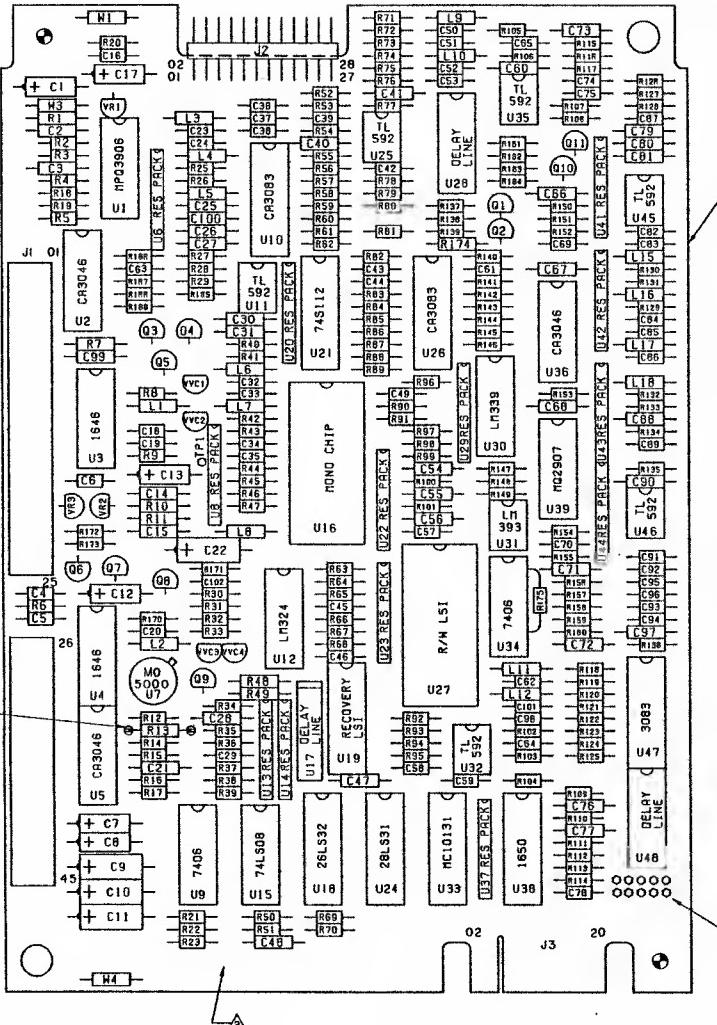
3

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IDENT. NO. CD STATUS REVISION

SHEET REVISION STATUS		REVISION RECORD			
REV	REV	REV	REV	REV	REV
FOR DOCUMENT STATUS SEE REVISION STATUS SHEET					



JUMPER LIST	
FROM	TO
UI8-04	UI8-I2 (GND)
UI9-13	UI9-I6 (+5V)
U30-12	R91-W (-5V)

VERIFY CONNECTIONS	
FROM	TO
RI75-N	U34-14
RI75-S	U34-9

## NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ASSEMBLE PER 59701127, EXCEPT PARAGRAPH 3.8.3.
2. MAXIMUM COMPONENT HEIGHT .30 EXCEPT J1 AND U27. 0.33, AND ITEMS 177, D.25
3. MARK ASSEMBLY NO. IN APPROXIMATE LOCATION SHOWN PER 12A1099P1.
4. FOR SCHEMATIC DIAGRAM, SEE ITEM I.
5. COMPONENT MARKING WITHOUT ALPHA PREFIX ARE DIODES.
6. SOLID BAND ON DIODES AND VOLTAGE REGULATORS INDICATE CATHODE END.
7. GENERAL WORKMANSHIP PER 10120300.
8. CLIP PIN 12 OF IC U30. INSTALL JUMPER TO LEAD OF IC.

MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES 3-PLACE 2-PLACE ANGLES	INDUSTRIAL DIVISION A SUBSIDIARY OF COMPUTER DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	OWN. D. HUBBLE CHKD. D. COLEMAN ENGD. K. NORMAN MFG. MFG.	06-15-84 6-15-84 6-15-84	TITLE PWA. ESDI DATA	SIZE D 77760600 502	DRAWING NUMBER CO REV
FINISH	DO NOT SCALE DRAWING SHEET	WREN 11	DATA BASE DNO.WREN.77760620	X	SCALE 2/1 SHEET 1 of 2	DISP A23-AYS 1	DISP A23-AYS 1

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D

RES	PL ITEM
R1	169
R2	115
R3	115
R4	142
R5	150
R6	151
R7	164
R8	147
R9	151
R10	171
R11	171
R12	142
R13	175
R14	121
R15	172
R16	110
R17	158
R18	151
R19	149
R20	147
R21	149
R22	116
R23	135
R24	-
R25	136
R26	136
R27	131
R28	131
R29	174
R30	130
R31	133
R32	111
R33	112
R34	116
R35	129
R36	124
R37	143
R38	120
R39	123
R40	114
R41	114
R42	113
R43	113
R44	146
R45	126
R46	145
R47	157
R48	148
R49	152
R50	153
R51	132
R52	136
R53	139
R54	189
R55	190

RES	PL ITEM
R56	190
R57	198
R58	180
R59	190
R60	146
R61	192
R62	193
R63	160
R64	155
R65	157
R66	162
R67	130
R68	133
R69	136
R70	136
R71	180
R72	180
R73	184
R74	184
R75	198
R76	198
R77	117
R78	136
R79	198
R80	198
R81	149
R82	166
R83	183
R84	183
R85	185
R86	161
R87	109
R88	185
R89	153
R90	137
R91	202
R92	182
R93	145
R94	182
R95	145
R96	201
R97	191
R98	194
R99	119
R100	114
R101	162
R102	109
R103	154
R104	154
R105	139
R106	144
R107	122
R108	122
R109	168
R110	168
R111	139
R112	147
R113	147
R114	165
R115	142
R116	110
R117	118
R118	179
R119	125
R120	120
R121	173
R122	107
R123	125
R124	163
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R126	115
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R129	141
R130	178
R131	178
R132	187
R133	187
R134	174
R135	139
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R137	205
R138	178
R139	179
R140	197
R141	199
R142	199
R143	109
R144	161
R145	196
R146	196
R147	149
R148	153
R149	200
R150	127
R151	120
R152	139
R153	128
R154	134
R155	114
R156	120
R157	120
R158	188
R159	188
R160	153
R161	122
R162	195
R163	127
R164	120
R165	140

RES	PL ITEM
R166	120
R167	159
R168	161
R169	144
R170	120
R171	159
R172	181
R173	144
R174	204
R175	203

RES	PL ITEM
C1	84
C2	77
C3	77
C4	75
C5	75
C6	75
C7	94
C8	95
C9	98
C10	97
C11	97
C12	95
C13	95
C14	77
C15	77
C16	91
C17	93
C18	75
C19	75
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C22	97
C23	103
C24	102
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C28	76
C29	103
C30	77
C31	77
C32	78
C33	83
C34	75
C35	89
C36	99
C37	99
C38	86
C39	99
C40	77
C41	77
C42	89
C43	89
C44	89
C45	87
C46	75
C47	77
C48	77
C49	92
C50	78
C51	82
C52	89
C53	98
C54	90
C55	90

CAP	PL ITEM
C56	90
C57	81
C58	99
C59	99
C60	77
C61	75
C62	79
C63	75
C64	75
C65	69
C66	77
C67	76
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C84	89
C85	73
C86	86
C87	99
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C91	89
C92	89
C93	99
C94	89
C95	75
C96	75
C97	77
C98	75
C99	77
C100	77
C101	80
C102	75
C103	30

IC	PL ITEM
U1	12
U2	13
U3	5
U4	5
U5	13
U6	36
U7	25
U8	42
U9	19
U10	14
U11	17
U12	15
U13	-
U14	-
U15	10
U16	24
U17	27
U18	29
U19	7
U20	39
U21	26
U22	44
U23	37
U24	28
U25	17
U26	14
U27	8
U28	30
U29	45
U30	16
U31	18
U32	17
U33	21
U34	19
U35	17
U36	13
U37	35
U38	6
U39	11
U40	-
U41	43
U42	31
U43	36
U44	38
U45	17
U46	17
U47	14
U48	30

VARI	PL ITEM
VVC1	49
VVC2	49
VVC3	49
VVE4	49

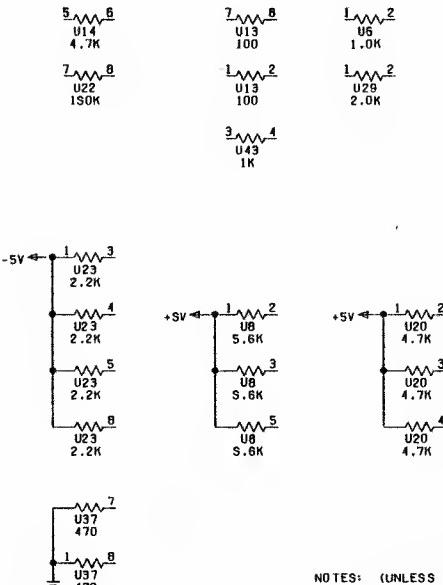
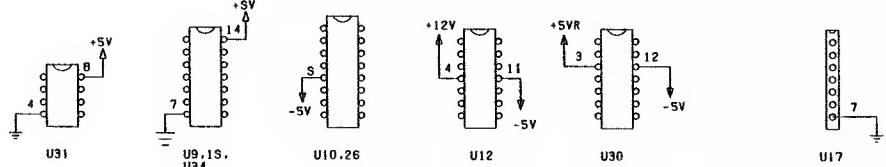
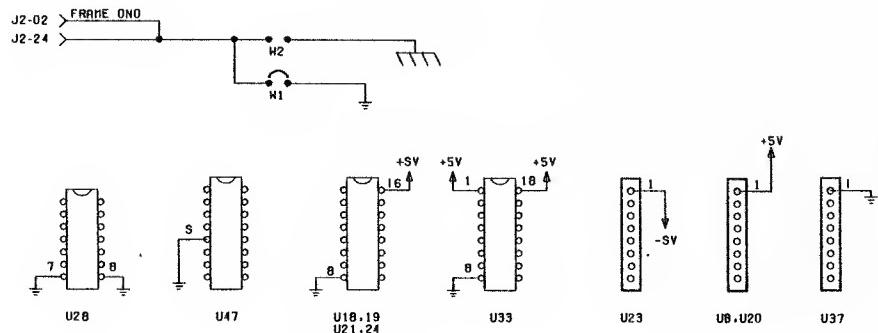
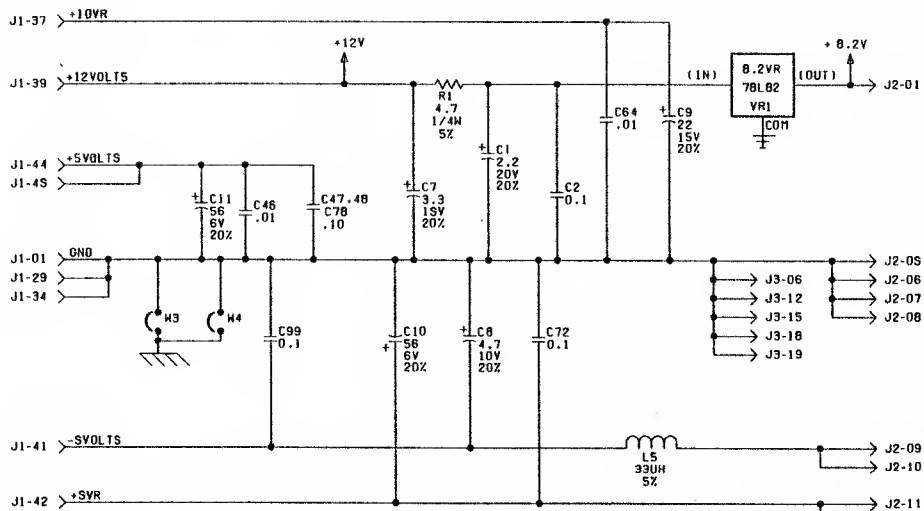
ISTR	PL ITEM
I01	52
I02	52
I03	47
I04	47
I05	47
I06	47
I07	47
I08	47
I09	50
I10	52
I11	52

CONN	PL ITEM
J1	68
J2	68
J3	-

MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
DATE 06-15-84  
TITLE PWA, ESDI  
DATABASE NAME X  
DRAWING NUMBER D 7776D600  
CO REV 502

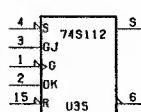
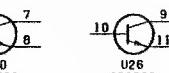
SHEET 2 F  
DISTR R23-RYS 1

IDENT. NO.	CD	STATUS	REVISION	5	4	3	2	1	REV.	ECN	SPRT	CRS	DATE			
BRIEF REVISION STATUS													REVISION RECORD			
				5	6								02	PL66050	B. FURR	
				U14	U13	U6	U5	U2					02	JUN 11 1994		



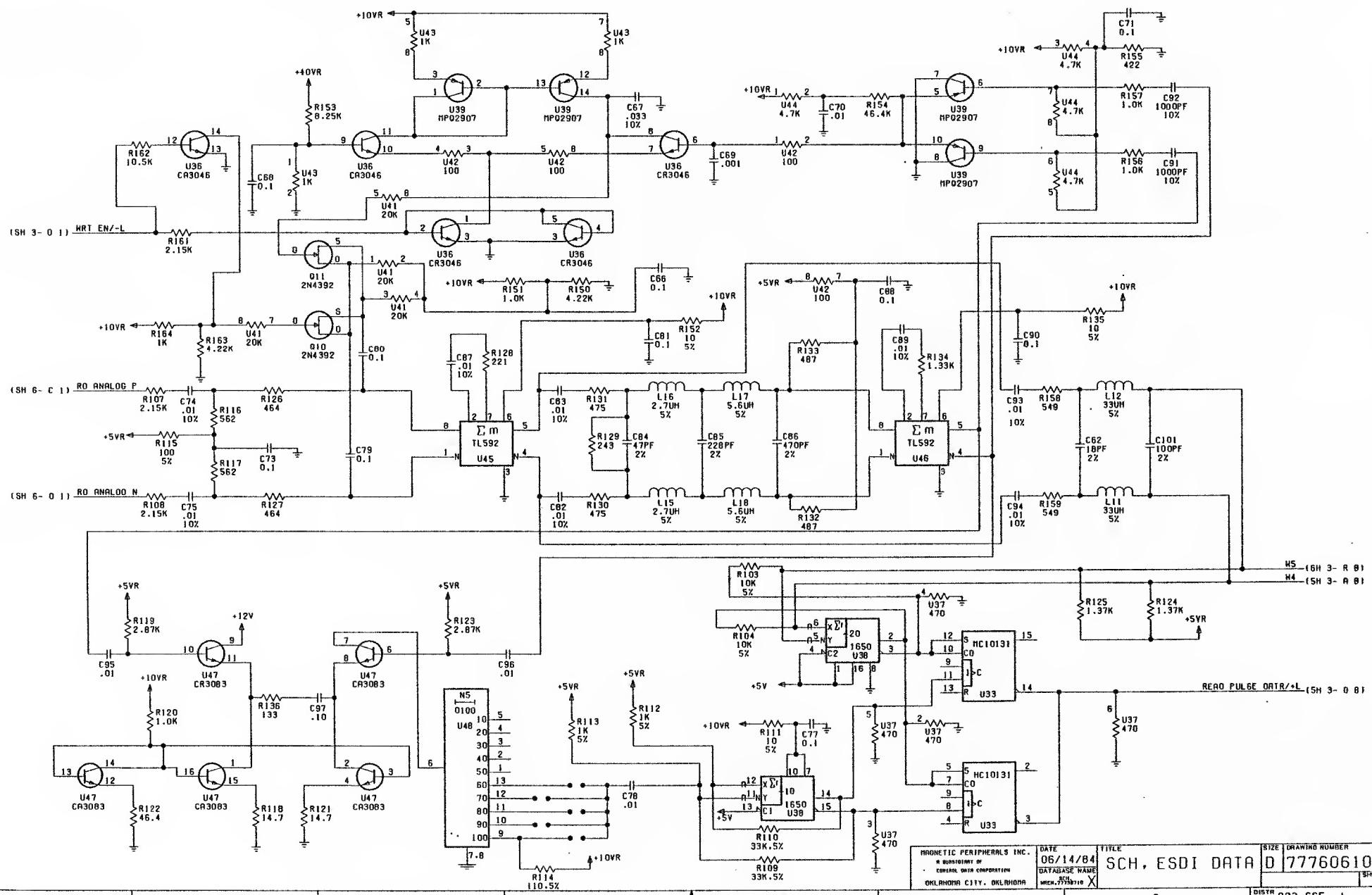
**NOTES: (UNLESS OTHERWISE SPECIFIED)**

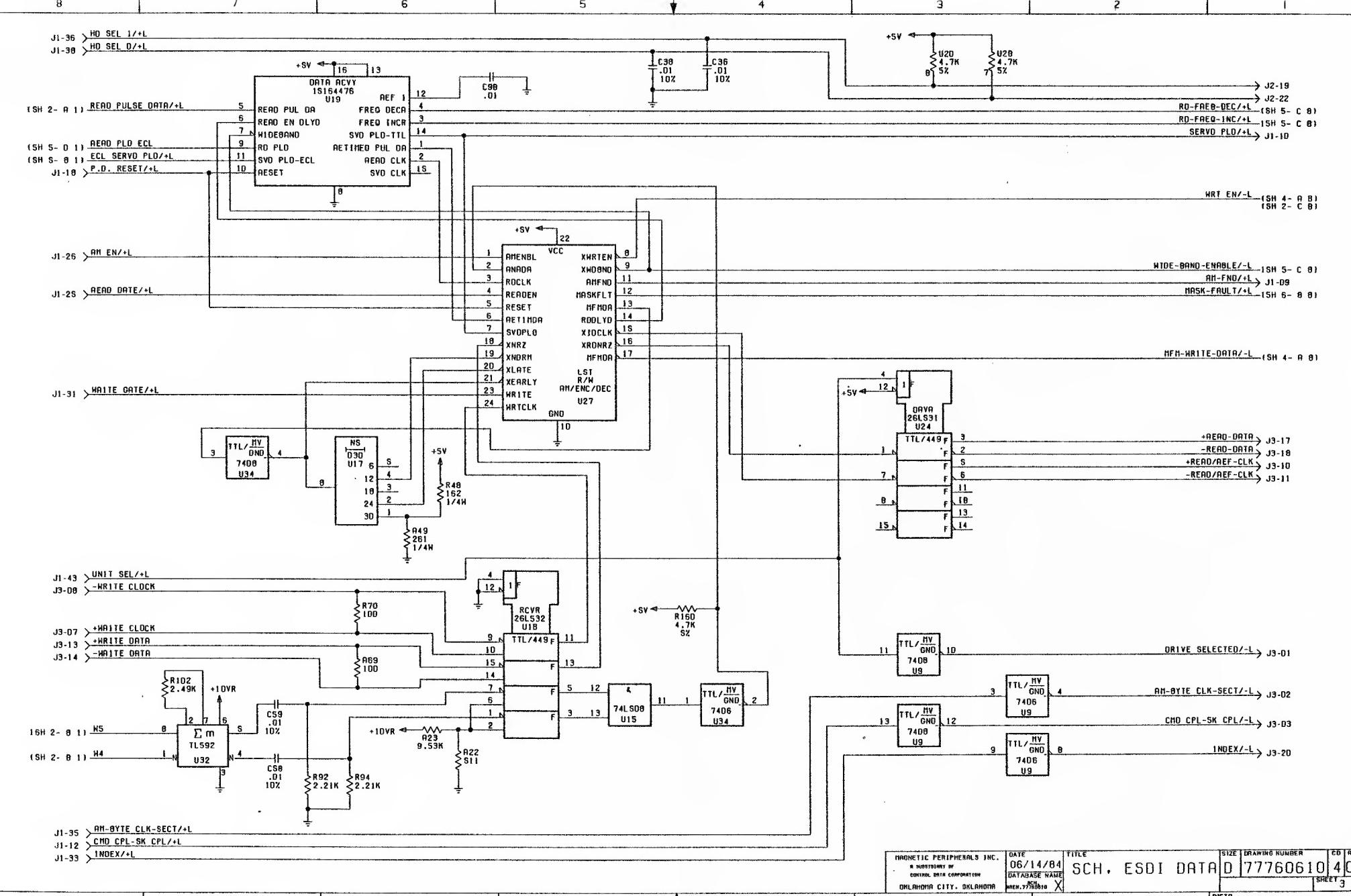
1. DRAWING INTERPRETATION PER 43A226599
  2. RESISTOR VALUES ARE IN OHMS. 1/8W ± 1% UNLESS INDICATED
  3. CAPACITOR VALUES ARE IN MICROFARADS. 50V+80-20% UNLESS INDICATED



**SPARES**

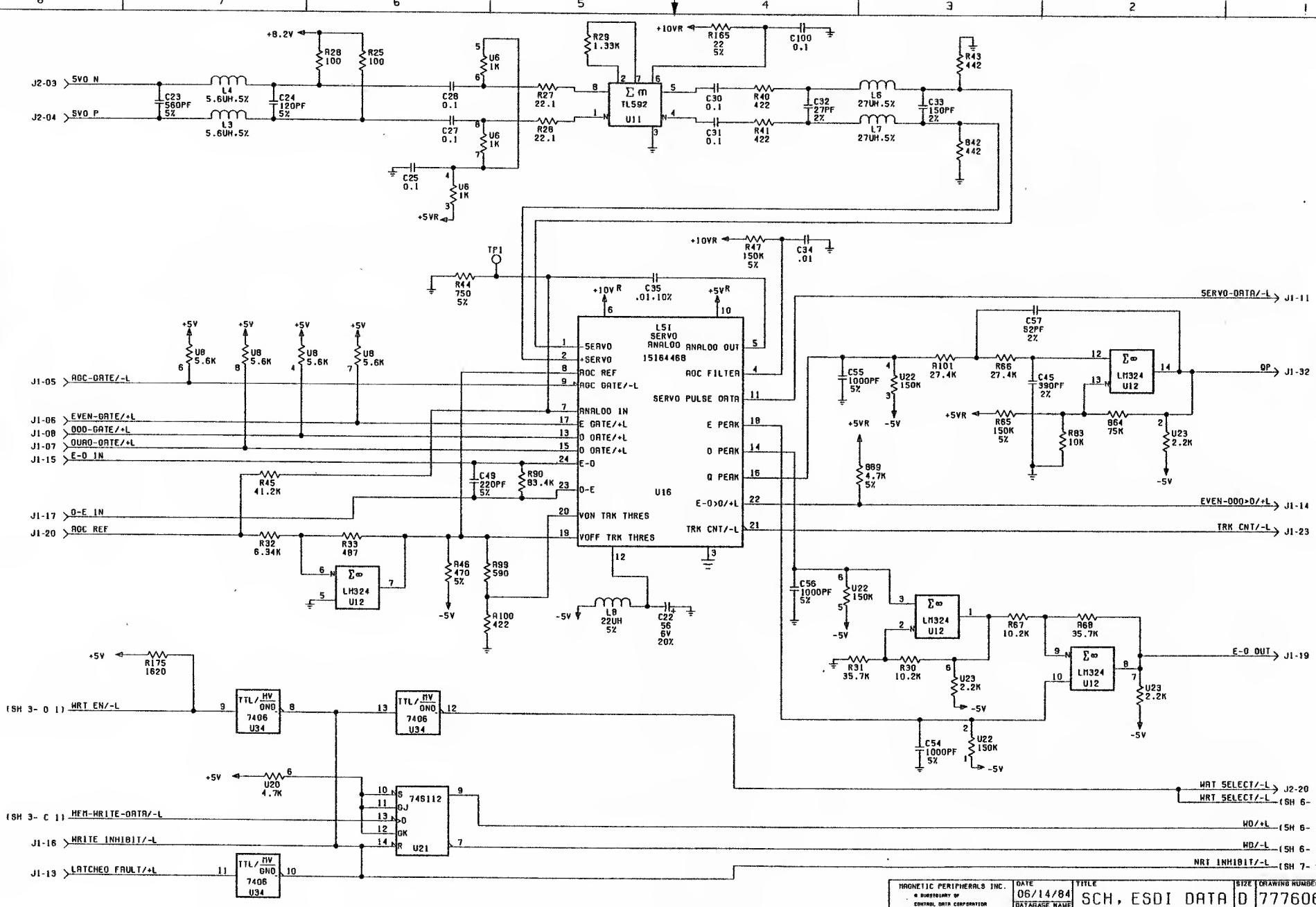
MATERIAL	HELSIS OTHERWIE SPECIFIED DIMENSIONS ARE IN INCHES	MAGNETIC PERIPHERALS INC.	OWN	TORN HOH	08-11-81	TITLE	SIZE	DRAWING NUMBER	CD	RE
FINISH	TOLERANCES 3-PLACE ANGLES 2-PLACE DIST.	CS A SUBSIDIARY OF CONTINENTAL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	CHKD	D. COLEMAN	08/15/84	SCH,	D	77760610	4	0
	GO NOT SCALE DRAWING	ENGR	R. NORTON	08/15/84	ESDI DATA	SCALE	NONE	SHEET	1	of 7
		MFG								
4	3	DATA BASE SCH, MREN, 77760610	X	2	DISTR	R23-SC5	I			





MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA

TITLE		SIZE	DRAWING NUMBER	CD	REV
/84	SCH. ESDI DATA	D	77760610	4	02
NAME				SHEET 3	
10 X					



MAGNETIC PERIPHERALS INC.  
© 1984 DIVISION OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
MEN-77760610 X

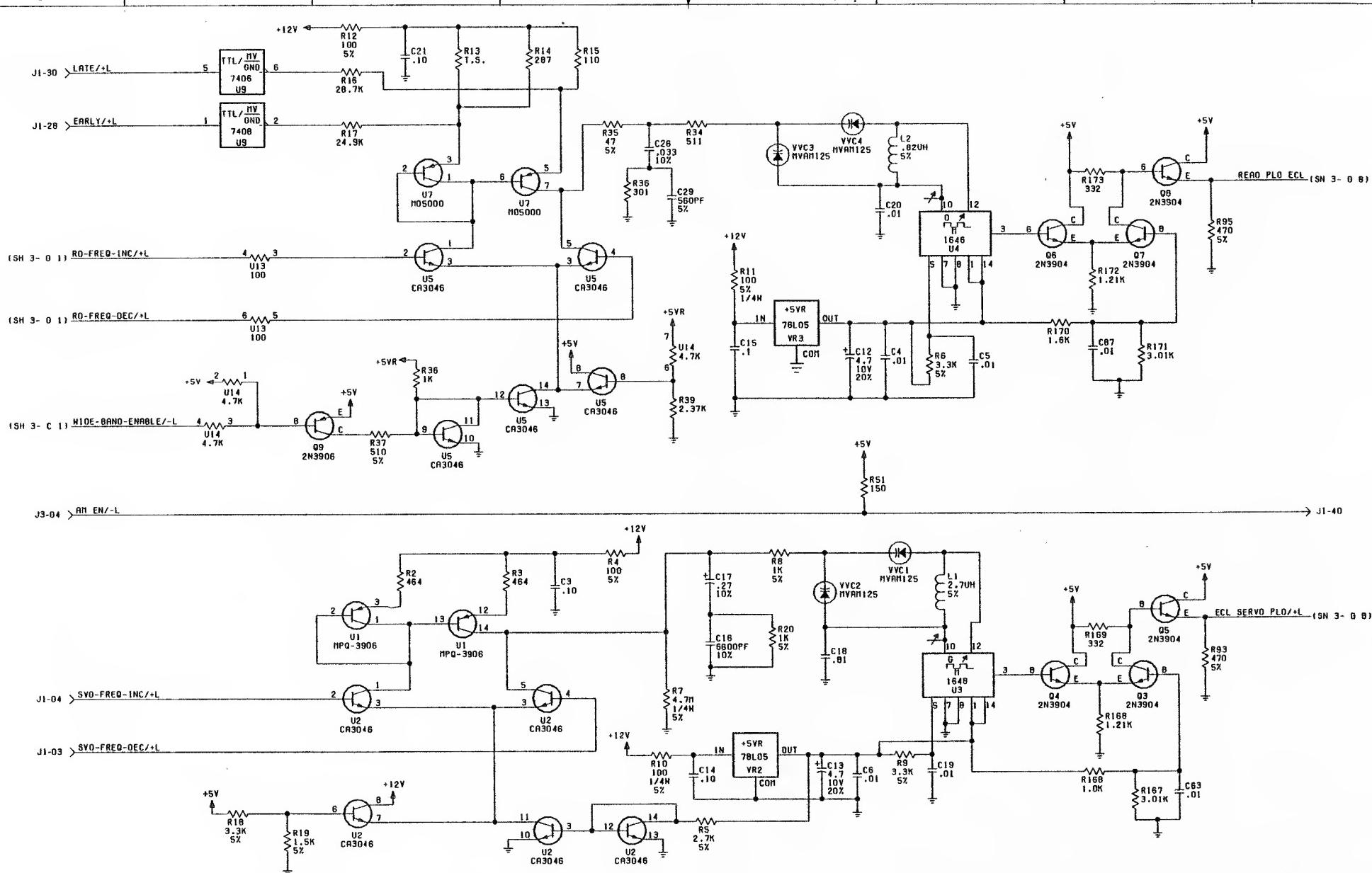
DATE 06/14/84  
DATABASE NAME  
MEN-77760610 X

TITLE SCH, ESDI DATA

SIZE D  
DRAWING NUMBER 077760610 402  
REV 02

8 | 7 | 6 | 5 | 4 | 3 | 2 | 1

DISTR A23-SC5 I

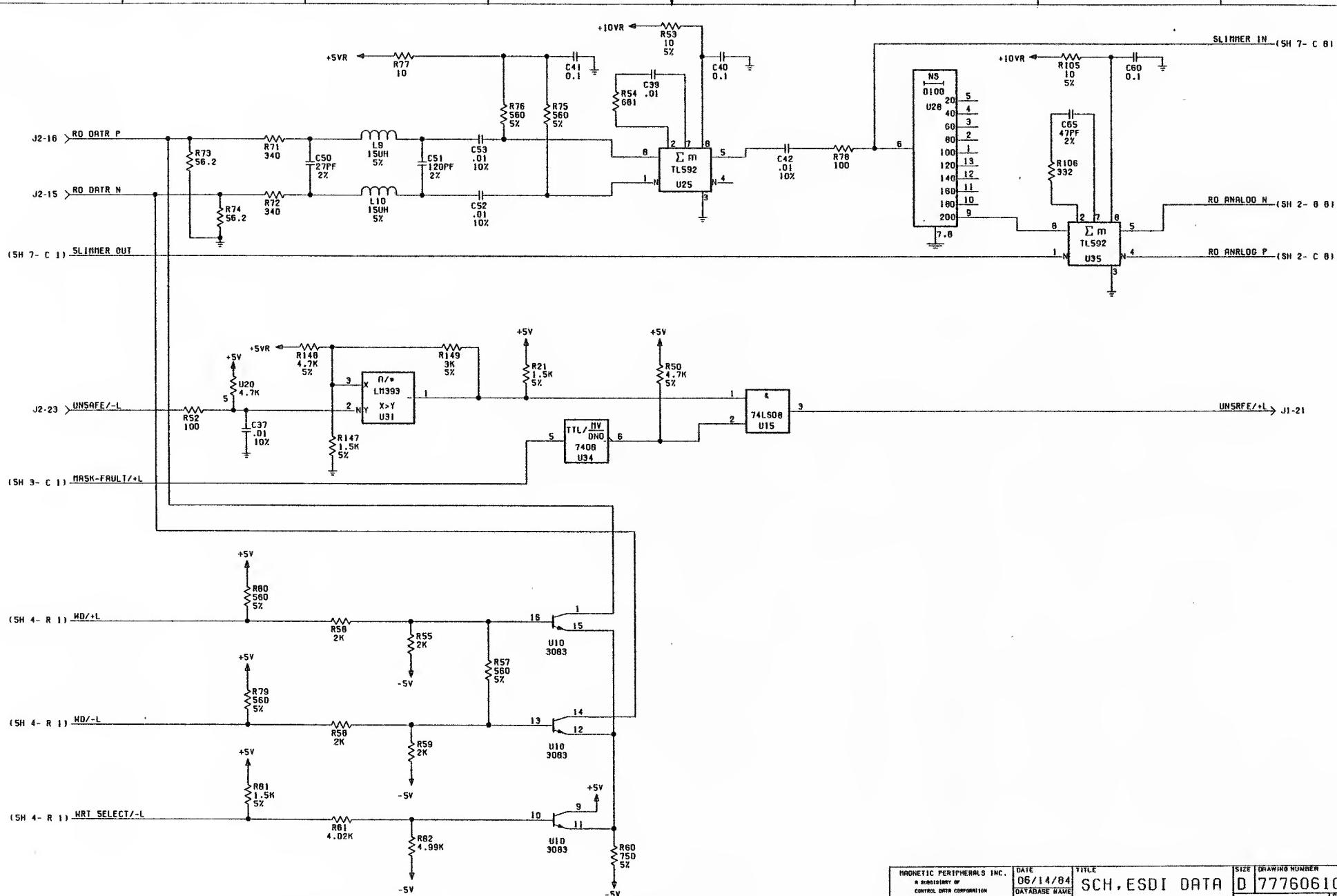


MAGNETIC PERIPHERALS  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OK

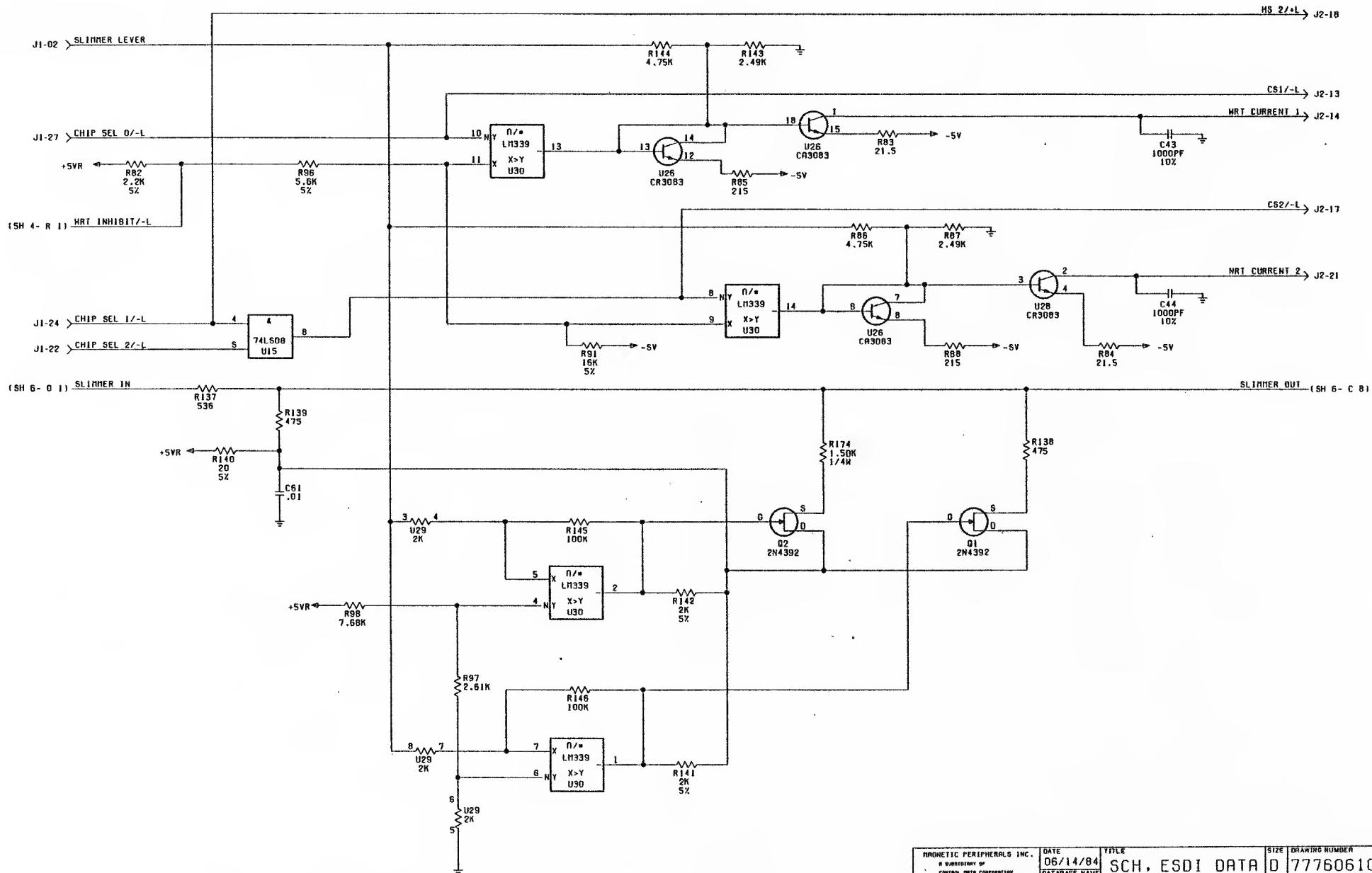
LS INC. DATE  
TION 06/  
LAHOMA DATABASE  
MREN.777

4/84	TITLE SCH, ESDI DAT
NAME	

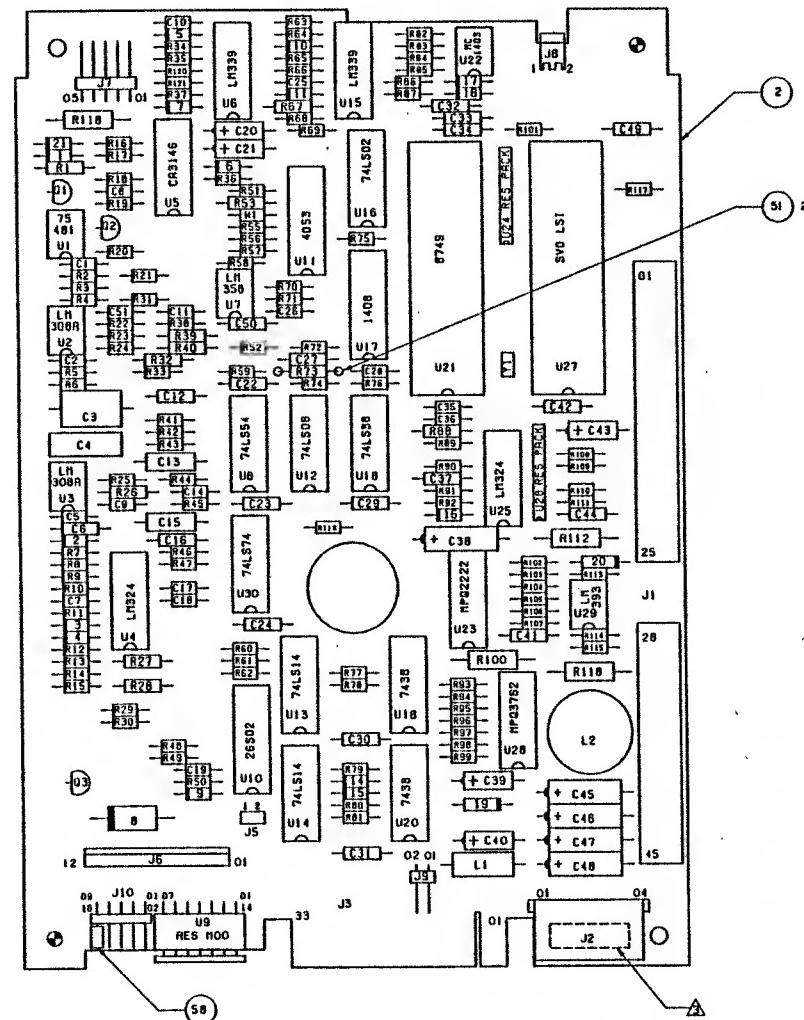
R D 77760610 4D  
SHEET 5



HYDRAULIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION	DATE 06/14/84	TITLE SCH. ESDI DATA	SIZE D	DRAWING NUMBER 77760610402	CO REV SHEET 6
OKLAHOMA CITY, OKLAHOMA	DATA BASE NAME MCH-77200				



MAGNETIC PERIPHERALS INC.		DATE	TITLE		SIZE	DRAWING NUMBER	CO	REV
A SUBSIDIARY OF CONTROL DATA CORPORATION		06/14/84	SCH. ESDI DATA		D	77760610	40	C
OKLAHOMA CITY, OKLAHOMA		DATABASE NAME NEM-77760610		X				
SHEET 7 F								



NOTES: UNLESS OTHERWISE SPECIFIED

1. ASSEMBLE PER 5970127, EXCEPT PARAGRAPH 3.B.
2. MAXIMUM COMPONENT HEIGHT .38  
EXCEPT ITEM 32 AND 12 TO BE .40 MAXIMUM,
3. MARK ASSEMBLY HO. IN APPROXIMATE LOCATION  
SHOWN ON BACK (ISOLDE) SIDE PER 1241099PI.
4. FOR SCHEMATIC DIAGRAM, SEE ITEM I.
5. COMPONENT MARKING WITHOUT ALPHA PREFIX  
ARE DIODES.
6. SOLID BAND ON DIODES AND VOLTAGE REGULATORS  
INDICATE CATHODE END.
7. U21 (ITEM 23), U27 (ITEM 19) AND R73 (ITEM 10B)  
TO BE INSTALLED PER UVA TEST.
8. GENERAL WORKMANSHIP PER 10120300.
9. CLIP PIN 01, FLUSH WITH IC OF U2 AND U3  
(ITEM 11) PRIOR TO INSTALLATION.

MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES.	ARTIFICIAL PERIODENTALS INC. A Division of GD CONSTRUCTION OF CENTRAL INDUSTRIES OKLAHOMA CITY, OKLAHOMA	DWY SUDIE EVANS CNCR D. COLEMAN CNCR B. BEHNKE MFG H. WREN II	TITLE PWA SERVO-5	SIZE 11" x 17"	DRAWING NUMBER D 77760650	CD 007	REV. 0
FINISH	3-PLACE      2-PLACE      Anodized —      —      —				SCALE 2/1	SHEET 1 of 2F		
DO NOT SCALE DRAWING					0151R A23-RYS 1			
4	3	2						

8 7 6 5 4 3 2 1

RES	PL ITEM
R1	181
R2	142
R3	111
R4	146
R5	142
R6	131
R7	135
R8	140
R9	140
R10	172
R11	144
R12	140
R13	144
R14	167
R15	175
R16	169
R17	162
R18	156
R19	163
R20	168
R21	122
R22	173
R23	138
R24	146
R25	178
R26	104
R27	103
R28	103
R29	160
R30	167
R31	124
R32	179
R33	143
R34	165
R35	159
R36	171
R37	162
R38	138
R39	182
R40	182
R41	139
R42	130
R43	140
R44	110
R45	140
R46	165
R47	145
R48	160
R49	167
R50	141
R51	150
R52	137
R53	182
R54	-
R55	185

RES	PL ITEM
R56	120
R57	120
R58	164
R59	168
R60	183
R61	189
R62	118
R63	170
R64	187
R65	132
R66	121
R67	107
R68	162
R69	180
R70	182
R71	118
R72	117
R73	108
R74	159
R75	149
R76	163
R77	166
R78	168
R79	164
R80	149
R81	156
R82	126
R83	121
R84	121
R85	137
R86	125
R87	121
R88	106
R89	158
R90	112
R91	118
R92	118
R93	157
R94	152
R95	159
R96	152
R97	157
R98	157
R99	166
R100	101
R101	166
R102	147
R103	118
R104	134
R105	158
R106	163
R107	172
R108	162
R109	181
R110	118

RES	PL ITEM
TSTR	PL ITEM
D1	43
D2	49
D3	41

IND	PL ITEM
L1	65
L2	86

XTAL	PL ITEM
Y1	64
Y2	63

CAP	PL ITEM
C1	84
C2	78
C3	75
C4	67
C5	77
C6	62
C7	93
C8	93
C9	93
C10	93
C11	85
C12	61
C13	83
C14	79
C15	83
C16	84
C17	80
C18	93
C19	91
C20	70
C21	87
C22	84
C23	94
C24	94
C25	93
C26	91
C27	84
C28	89
C29	94
C30	84
C31	94
C32	94
C33	94
C34	94
C35	76
C36	80
C37	94
C38	74
C39	67
C40	71
C41	94
C42	84
C43	68
C44	94
C45	72
C46	69
C47	89
C48	72
C49	94
C50	94
C51	93

CONN	PL ITEM
J1	53
J2	54
J3	55
J4	-
J5	57
J6	59
J7	58
J8	60
J9	61
J10	82

JUMP	PL ITEM
H1	184

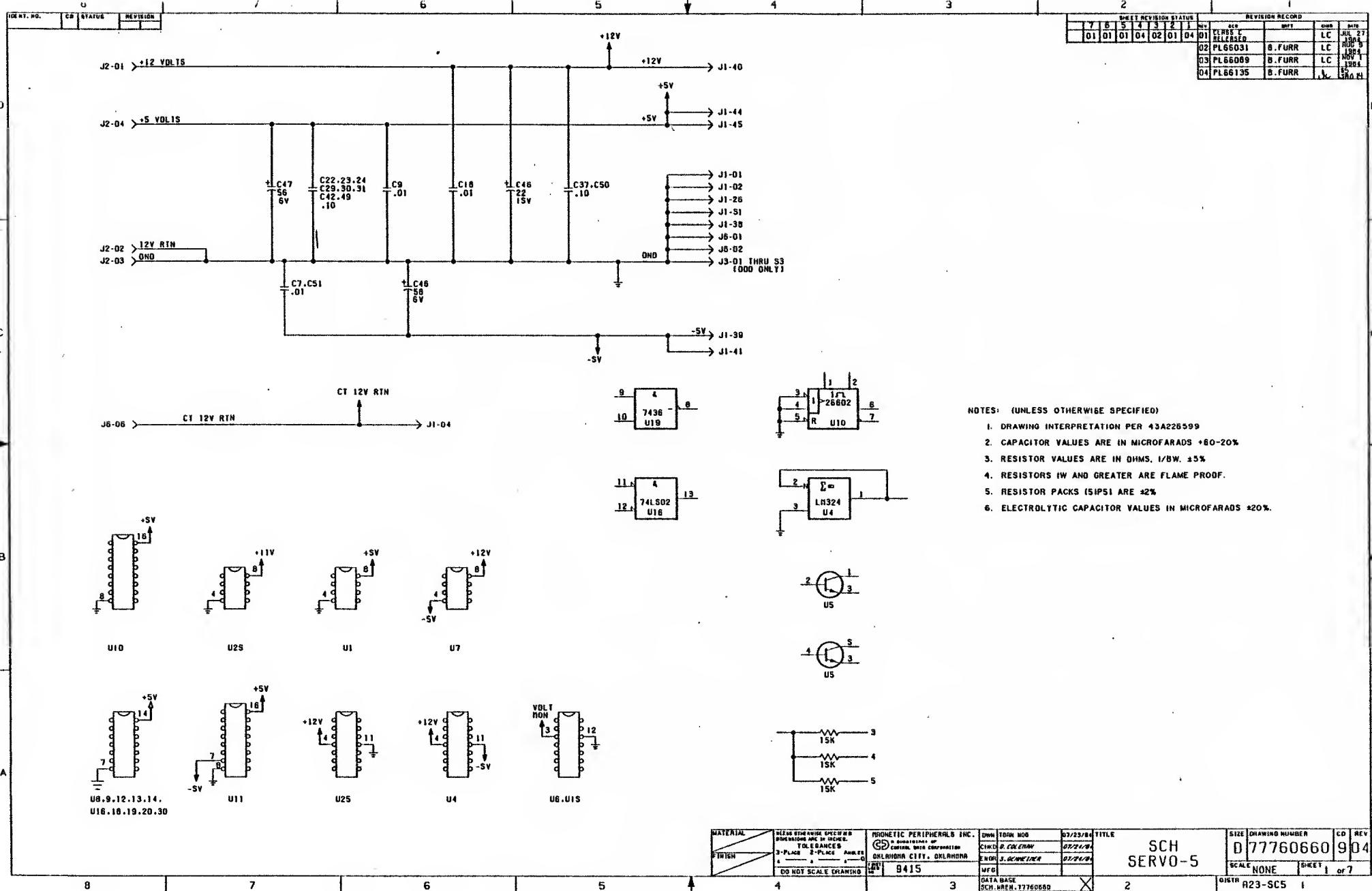
IC	PL ITEM
U1	5
U2	11
U3	11
U4	9
U5	26
U6	8
U7	12
U8	18
U9	32
U10	28
U11	24
U12	22
U13	10
U14	8
U15	6
U16	9
U17	15
U18	16
U19	14
U20	17
U21	33
U22	23
U23	13
U24	25
U25	30
U26	9
U27	27
U28	18
U29	31
U30	21

IC	PL ITEM
U21	23
U22	13
U23	25
U24	30
U25	9
U26	27
U27	33
U28	18
U29	31
U30	21

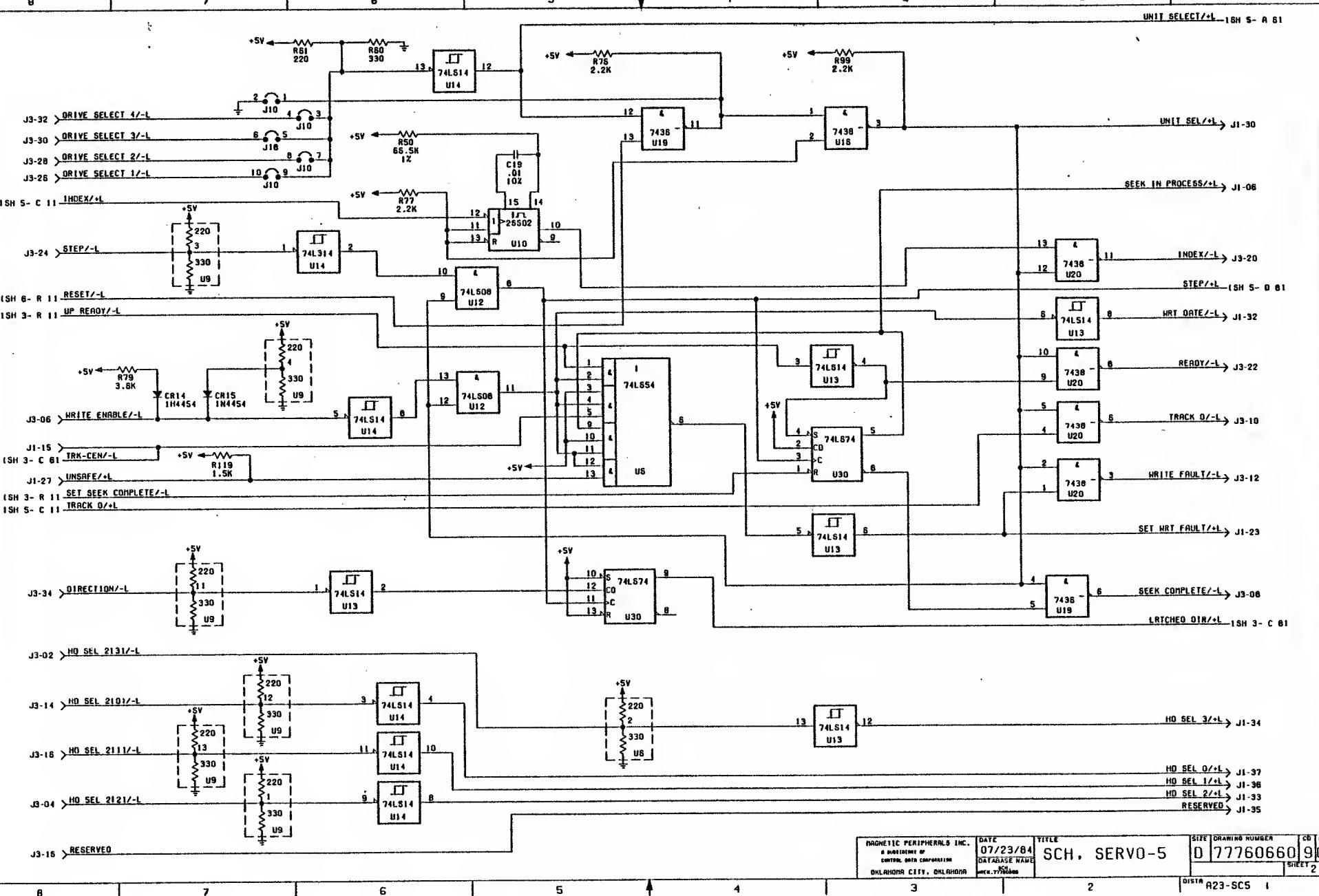
DIO	PL ITEM
CR1	35
CR2	35
CR3	35
CR4	36
CR5	35
CR6	35
CR7	35
CR8	34
CR9	35
CR10	35
CR11	35
CR12	-
CR13	-
CR14	35
CR15	35
CR16	35
CR17	35
CR18	35
CR19	38
CR20	36
CR21	35

MAGNETIC PERIPHERALS INC.  
A DIVISION OF  
CONTINENTAL DATA SYSTEMS  
OKLAHOMA CITY, OKLAHOMA  
DATE 07-24-84  
DATABASE NAME X  
DRAWING NUMBER PWA.SERVO-5  
SIZE D 77760650 REV 008  
SHEET 2 F

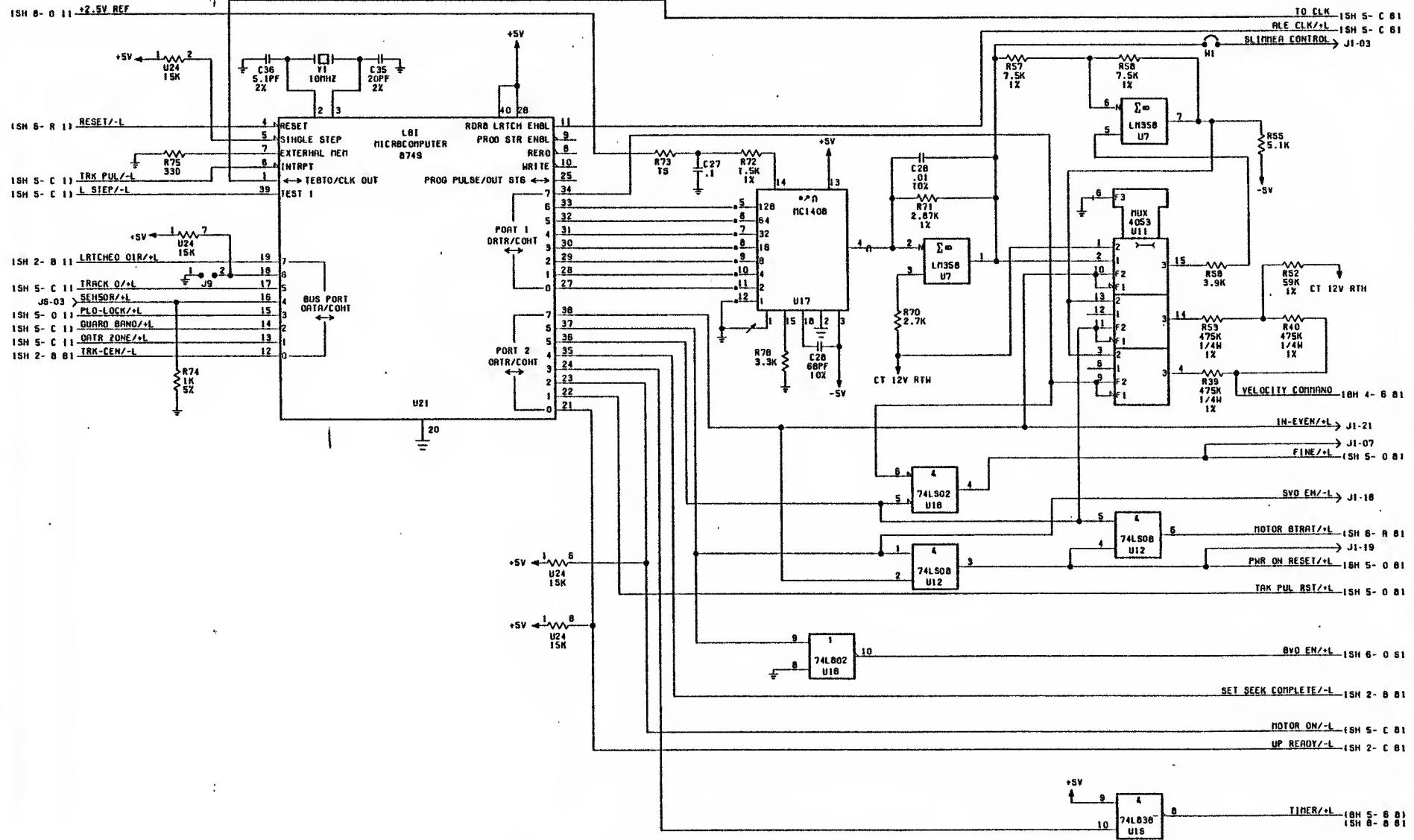
8 7 6 5 4 3 2 1

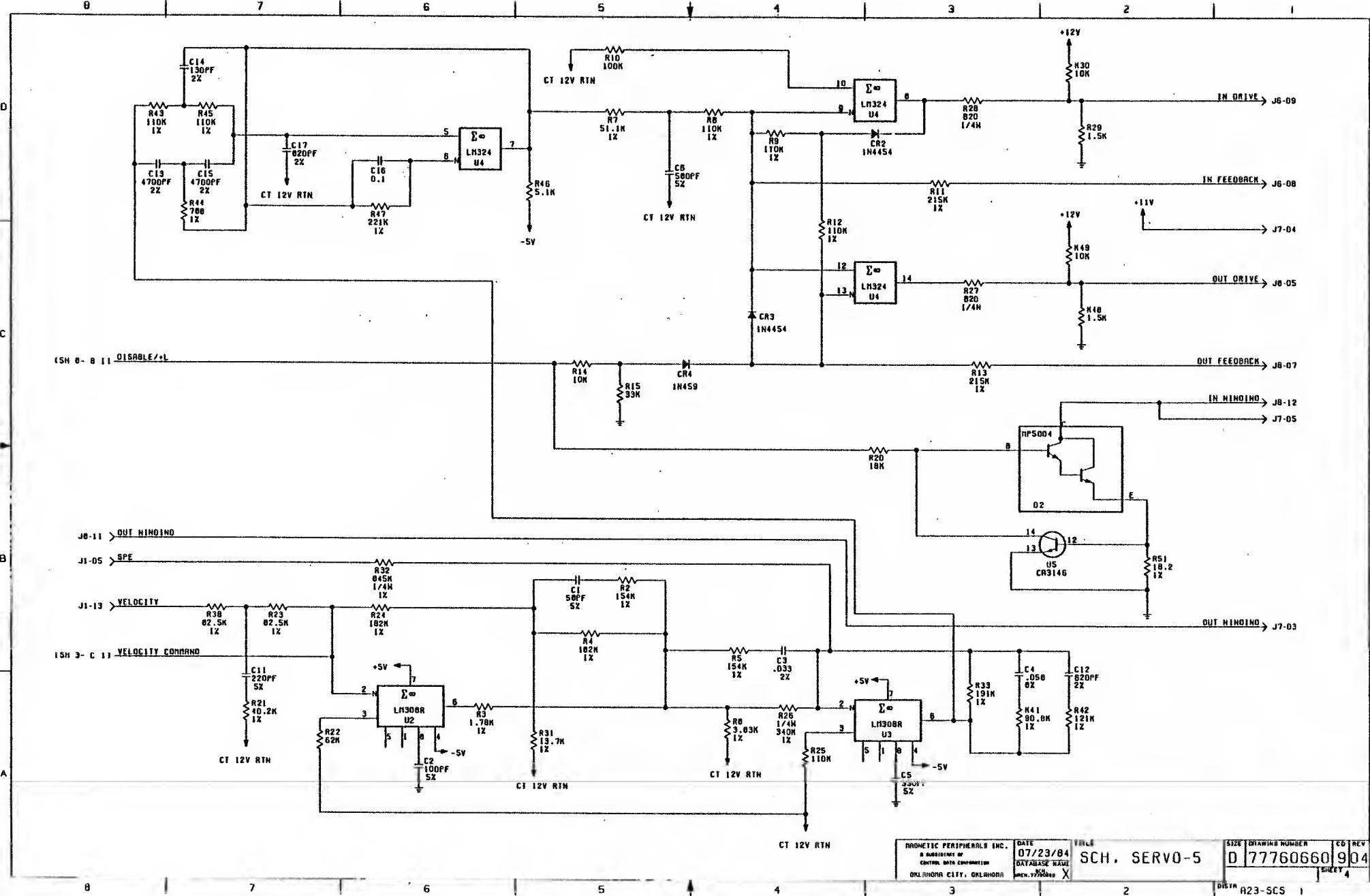


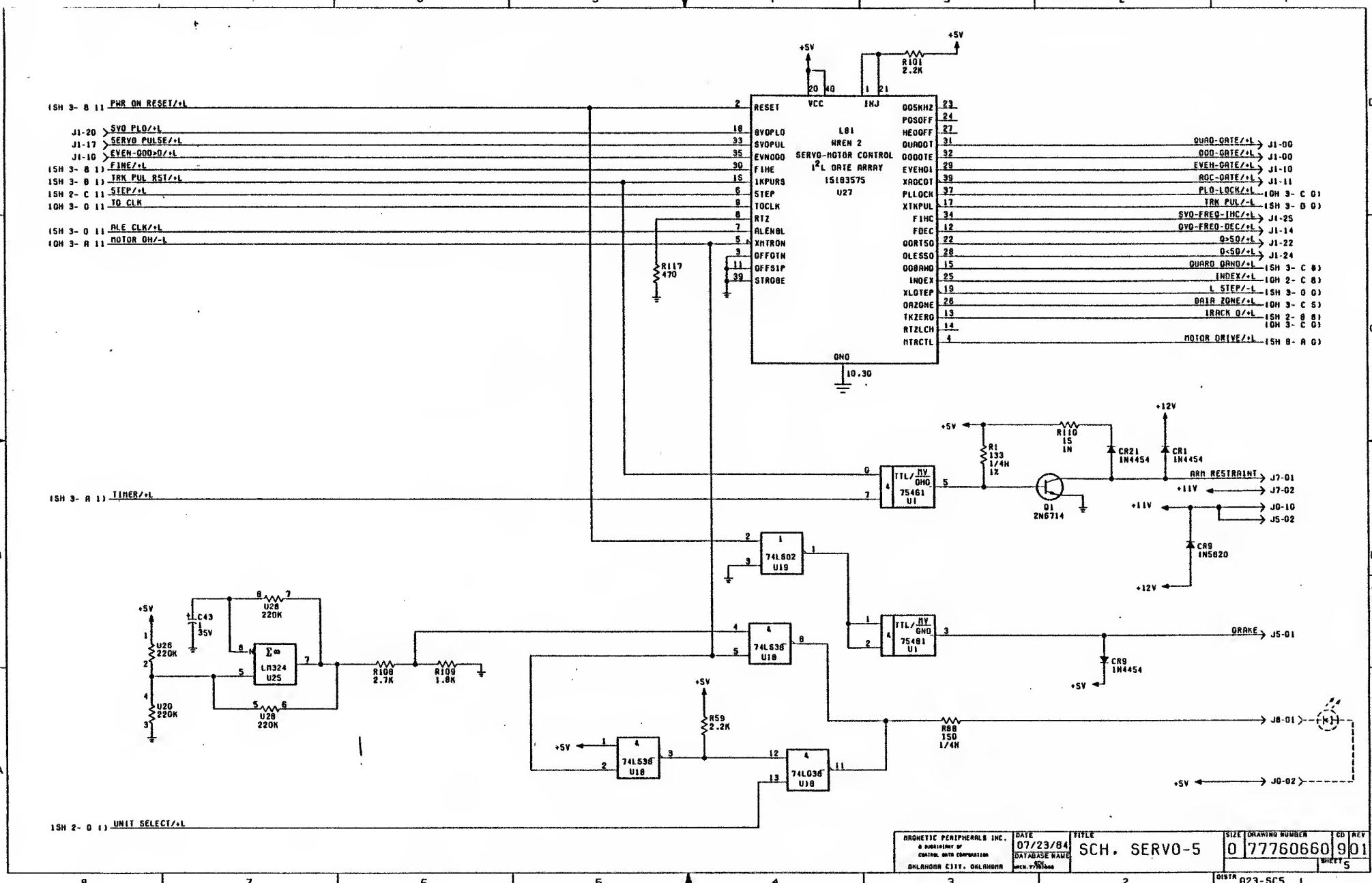
MATERIAL FINISH	MATERIAL NUMBER USE/PART NUMBER IS IN SICKLE		GEOMETRIC PERIPHERALS INC. CLOUD, OKLAHOMA CITY, OKLAHOMA CITY, OKLAHOMA	DRAWN BY C. COLEMAN CHECKED BY J. SCHNEIDER MFG.	DATE DRAWN 07/23/84 07/24/84 07/24/84	TITLE SCH SERVO-5	SIZE D	DRAWING NUMBER 77760660	CD 904
	TOLERANCES 3-PLACE	2-PLACE ANGLES 4 - - - 4					SCALE NONE	SHEET 1 of 7	
DO NOT SCALE DRAWING		REV. A	4	3	DATA BASE SCH. NO. 77760660	X	2	INST. R23-SC5	I

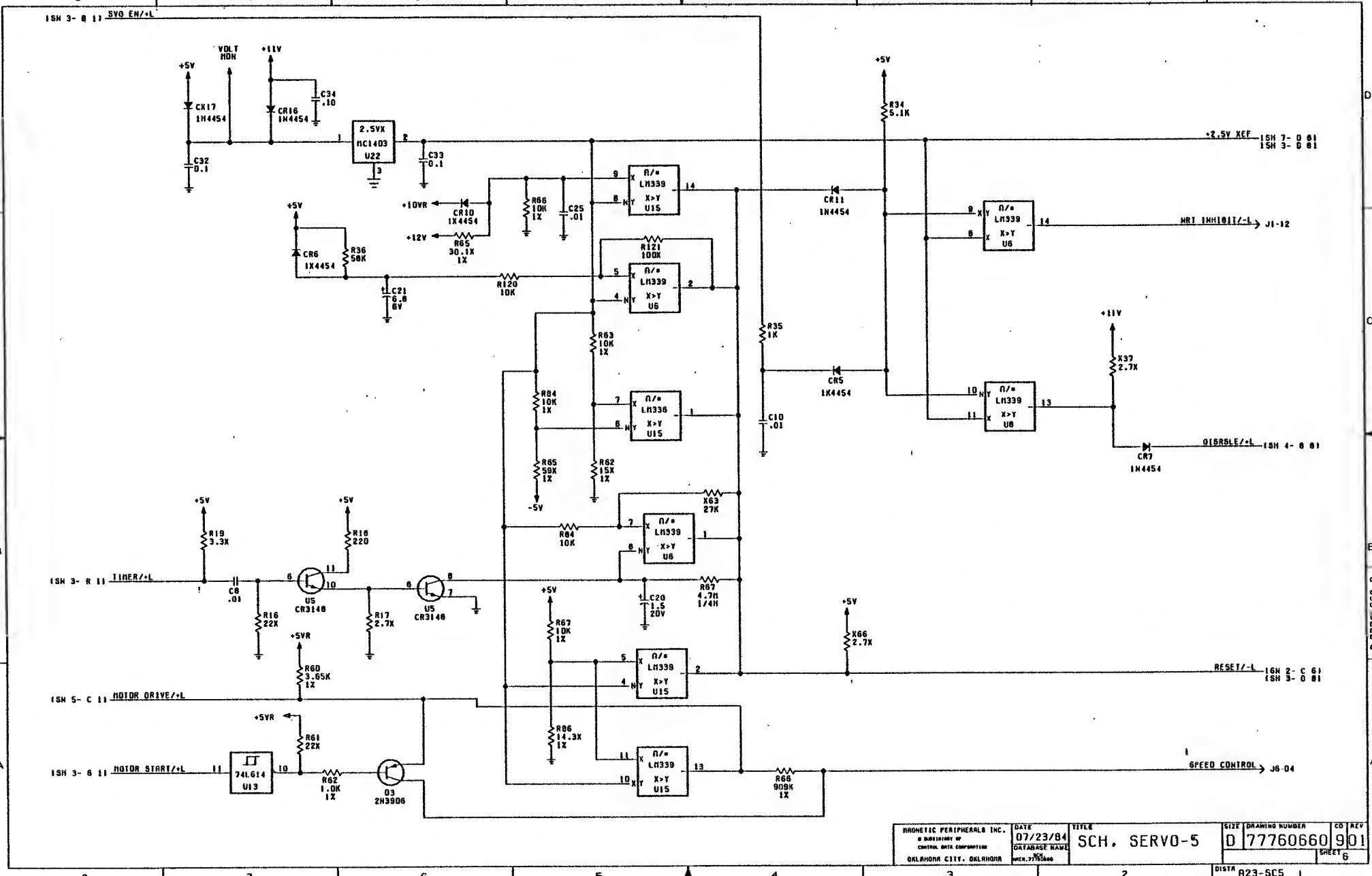


MAGNETIC PERIPHERALS INC.		DATE 07/23/84	TITLE SCH. SERVO-5	SIZE D	DRAWING NUMBER 77760660 901	CD	REV.
A SUBSIDIARY OF CENTRAL DATA CORPORATION		DRAWING NAME MCN-7000					
OKLAHOMA CITY, OKLAHOMA							

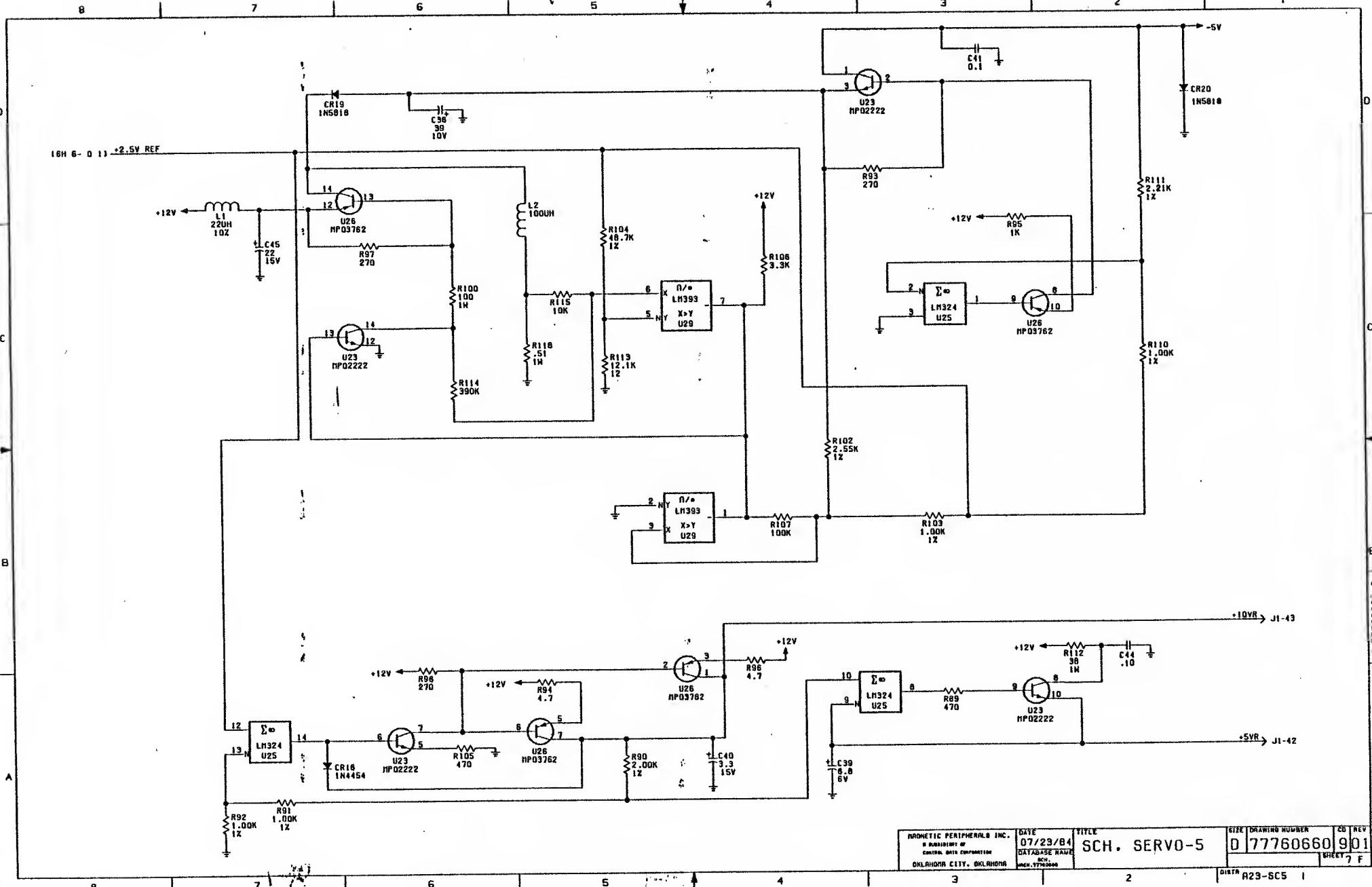








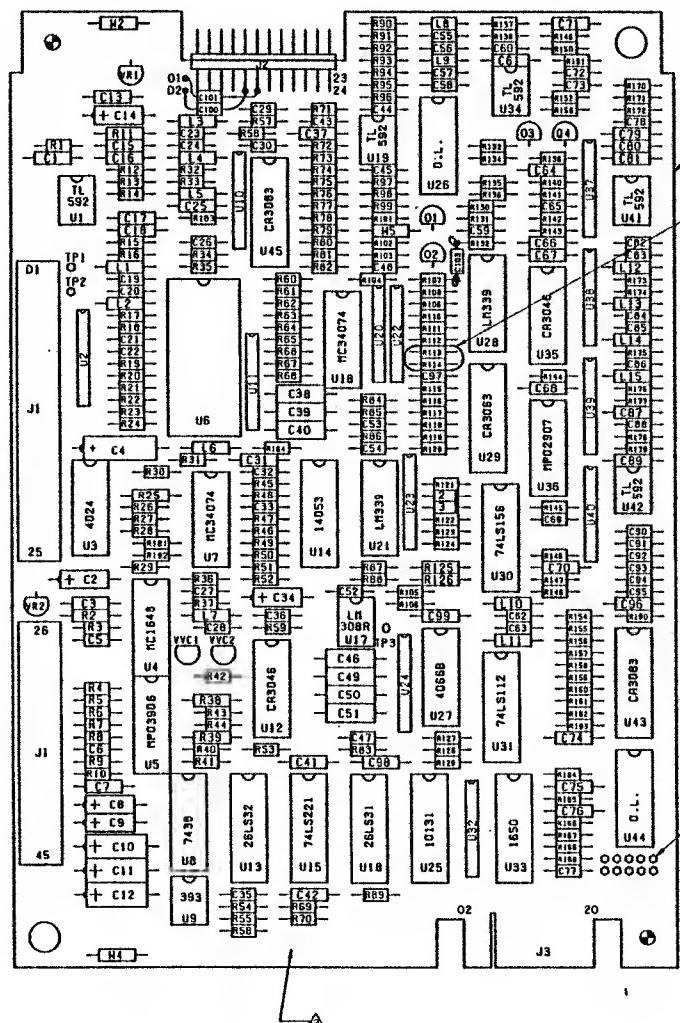
MAGNETIC PERIPHERALS INC.		DATE	TITLE		SIZE	DRAWING NUMBER	CO	REV
A SUBSIDIARY OF CENTRAL DATA CORPORATION		07/23/84	SCH. SERVO-5		D	77760660	901	
		DATABASE NAME JCH.					SHEET	1



MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
COMPAQ DATA COMPUTER  
OKLAHOMA CITY, OKLAHOMA  
DATE 07/23/84  
DATABASE NAME  
REV. 0000000000  
TITLE SCH. SERVO-5  
SIZE D 77760660 901  
CD REV  
W/CY 7 F

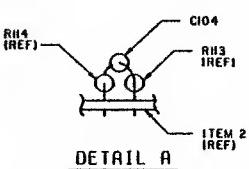
DIST# R29-SC5 1

SHEET REVISION STATUS		REVISION RECORD			
REV	REV	REV	REV	REV	REV
FOR DOCUMENT STATUS SEE REVISION STATUS SHEET					



## VERIFY CONNECTIONS

FROM	TO
C100-H	GNO
C100-E	J2-10
C101-W	GNO
C101-E	J2-12
C103-N	GNO
C103-S	U2B-02
C104-E	U2B-01
C104-H	GNO



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ASSEMBLE PER 5970H27, EXCEPT PARAGRAPH 3.8.3.
2. MAXIMUM COMPONENT HEIGHT .30 EXCEPT J1 0.31 AND ITEM 16B: 0.25.
- △ 3. MARK ASSEMBLY NO. IN APPROXIMATE LOCATION SHOWN PER 12A1099PI.
4. FOR SCHEMATIC DIAGRAM SEE ITEM I.
5. COMPONENT MARKING WITHOUT ALPHA PREFIX ARE DIODES.
6. SOLID BAND OH DIODES AND VOLTAGE REGULATORS INDICATE CATHODE END.
7. GENERAL WORKMANSHIP PER 10120300.

MATERIAL	UNLESS OTHERWISE SPECIFIED UNLESS OTHERWISE SPECIFIED TOLERANCES 3-PLACE 2-PLACE AMPLS	NETHER PERIPHERALS INC. © 1977 CENTRAL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DNN SUSIE EVANS 08-21-84	TITLE PWA DATA-5	SIZE D 77761580 804
FINISH	+	CHKD D. COLEMAN 08-21-84	HORN B. DENNEHNER 08-21-84	SCALE 2/1	SHEET 1 of 2
DO NOT SCALE DRAWING	100% HREN II	MYO	DATA BASE D 77761580 X	DISTR A23-AYS 1	CD REV

8 7 6 5 4 3 2 1

RES	PL	ITEM
R1	148	
R2	103	
R3	151	
R4	142	
R5	115	
R6	115	
R7	120	
R8	125	
R9	143	
R10	153	
R11	193	
R12	131	
R13	131	
R14	197	
R15	114	
R16	114	
R17	113	
R18	113	
R19	146	
R20	185	
R21	157	
R22	145	
R23	119	
R24	114	
R25	162	
R26	161	
R27	102	
R28	160	
R29	186	
R30	129	
R31	126	
R32	136	
R33	136	
R34	137	
R35	144	
R36	130	
R37	150	
R38	164	
R39	158	
R40	211	
R41	149	
R42	147	
R43	149	
R44	151	
R45	157	
R46	155	
R47	164	
R48	184	
R49	154	
R50	146	
R51	182	
R52	130	
R53	138	
R54	153	
R55	153	

RES	PL	ITEM
R56	188	
R57	153	
R58	153	
R59	147	
R60	144	
R61	130	
R62	130	
R63	133	
R64	136	
R65	156	
R66	152	
R67	130	
R68	185	
R69	116	
R70	105	
R71	216	
R72	139	
R73	187	
R74	187	
R75	121	
R76	167	
R77	187	
R78	146	
R79	123	
R80	123	
R81	149	
R82	121	
R83	132	
R84	133	
R85	185	
R86	185	
R87	188	
R88	165	
R89	142	
R90	180	
R91	180	
R92	117	
R93	117	
R94	121	
R95	21	
R96	139	
R97	104	
R98	122	
R99	109	
R100	-	
R101	163	
R102	207	
R103	208	
R104	121	
R105	168	
R106	156	
R107	207	
R108	202	
R109	198	
R110	167	

RES	PL	ITEM
R111	201	
R112	187	
R113	198	
R114	167	
R115	203	
R116	208	
R117	203	
R118	204	
R119	206	
R120	204	
R121	186	
R122	198	
R123	192	
R124	152	
R125	184	
R126	108	
R127	153	
R128	154	
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R158	120	
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R160	107	
R161	125	
R162	112	
R163	112	
R164	190	
R165	190	

CAP	PL	ITEM
C1	77	
C2	85	
C3	77	
C4	86	
C5	75	
C6	75	
C7	77	
C8	94	
C9	95	
C10	98	
C11	96	
C12	96	
C13	77	
C14	174	
C15	77	
C16	77	
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C18	77	
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C22	99	
C23	176	
C24	177	
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C26	92	
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C34	83	
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C45	89	
C46	75	
C47	86	
C48	68	
C49	88	
C50	88	
C51	88	
C52	79	
C53	65	
C54	82	
C55	78	

CAP	PL	ITEM
C60	171	
C61	77	
C62	84	
C63	92	
C64	77	
C65	74	
C66	77	
C67	76	
C68	77	
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C72	89	
C73	89	
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C78	99	
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C80	216	
C81	216	
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C83	6	
C84	17	
C85	13	
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C89	38	
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C91	17	
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C94	75	
C95	75	
C96	77	
C97	69	
C98	77	
C99	77	
C100	77	
C101	77	
C102	-	
C103	69	
C104	89	

IND	PL	ITEM
L1	59	
L2	59	
L3	56	
L4	56	
L5	60	
L6	61	
L7	54	
L8	57	
L9	68	
L10	68	
L11	80	
L12	54	
L13	54	
L14	56	
L15	56	

TSTR	PL	ITEM
91	52	
92	52	
93	52	
94	52	

VARI	PL	ITEM
VVC1	49	
VVC2	49	

JUMP	PL	ITEM
H1	-	
H2	194	
H3	-	
H4	194	
H5	194	

DIO	PL	ITEM
CR1	-	
CR2	50	
CR3	50	

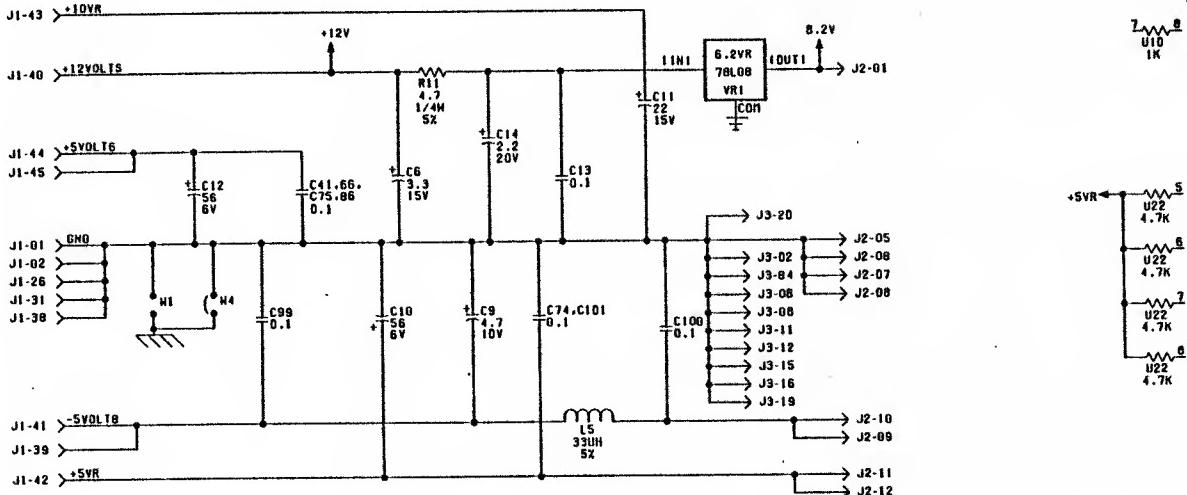
MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CENTRAL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
DATE 09-21-84  
DATA BASE  
PART NO. PWA-DATA-5  
REV B  
D 77761580 804

SIZE 2 F

DISTR A23-A5 1

QUEST. NO.	CG	STATUS	REVISION

SHEET/REVISION STATUS							REVISION RECORD			
7	6	5	4	3	2	1	REV.	SPN	SHB	DATE
04	01	01	01	01	04	04	01	CLNSH C RELEASED	LC	DEC 21 1984
							D2	PL66073	B. FURR	LC
							D3	PL66101		DEC 21 1984
							D4	PL66125	B. FURR	JL DEC 11



NOTE 9: (UNLESS OTHERWISE SPECIFIED)

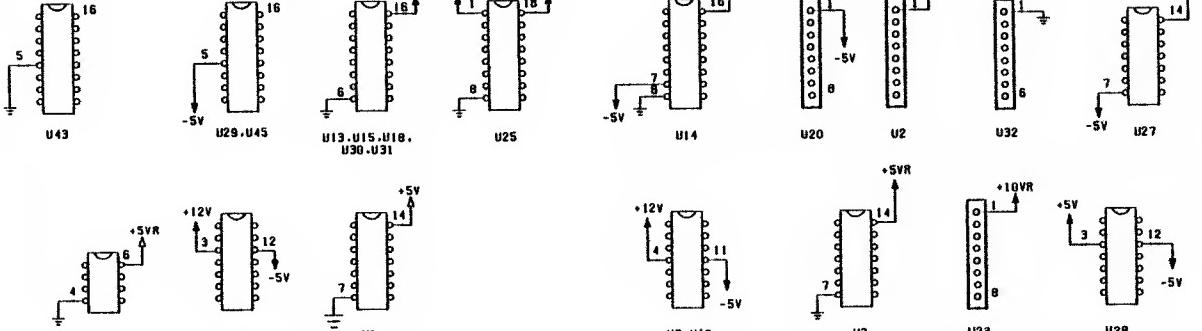
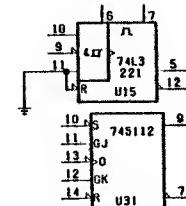
1. DRAWING INTERPRETATION PER 43A226599
  2. RESISTOR VALUES ARE IN OHMS, 1/8W ± 1%. UNLESS INDICATED
  3. CAPACITOR VALUES ARE IN MICROFARADS. UNLESS INDICATED

J1-35 ~~RESERVED~~

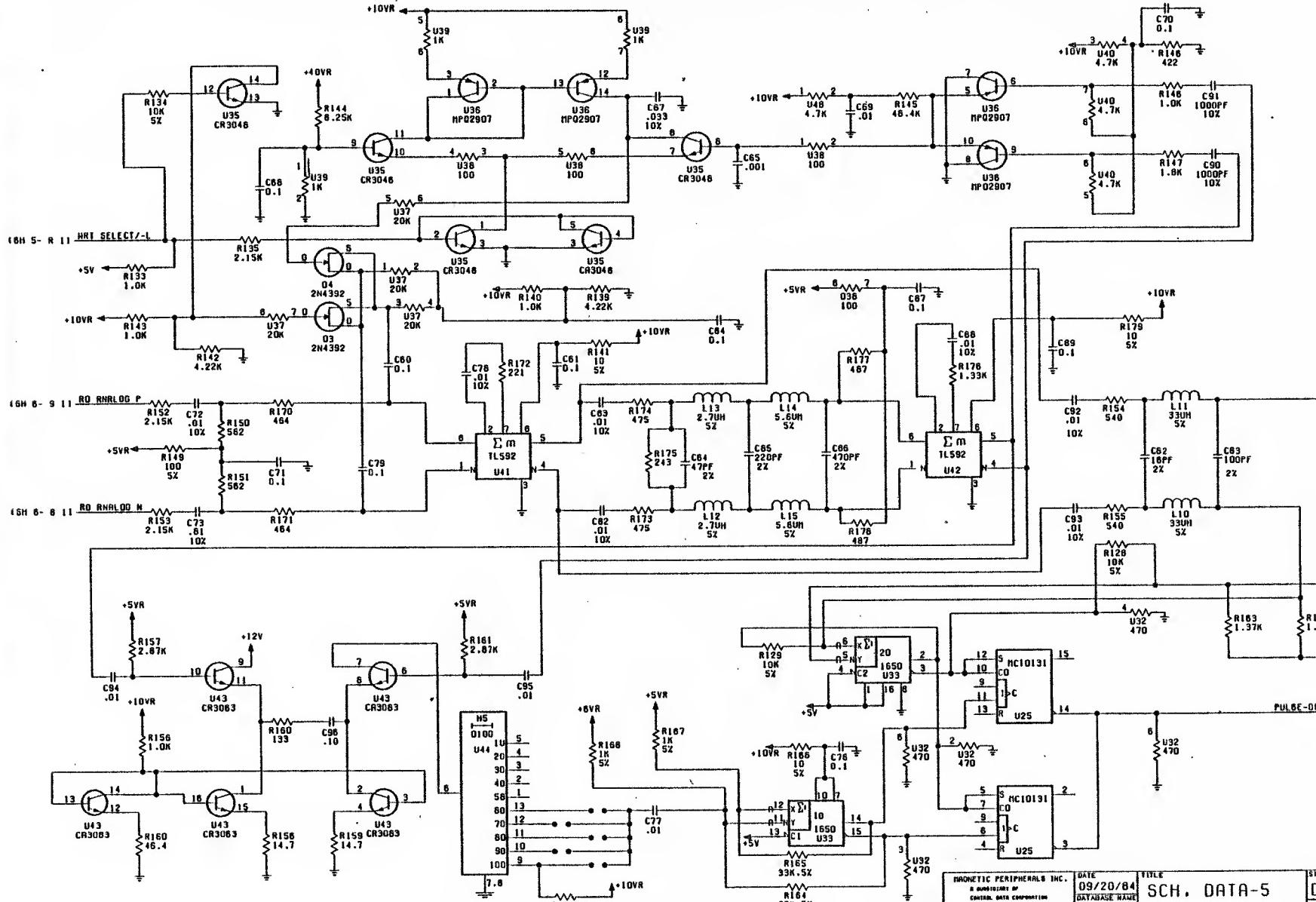
12-02 FRAME ONE

J2-24

SPARES

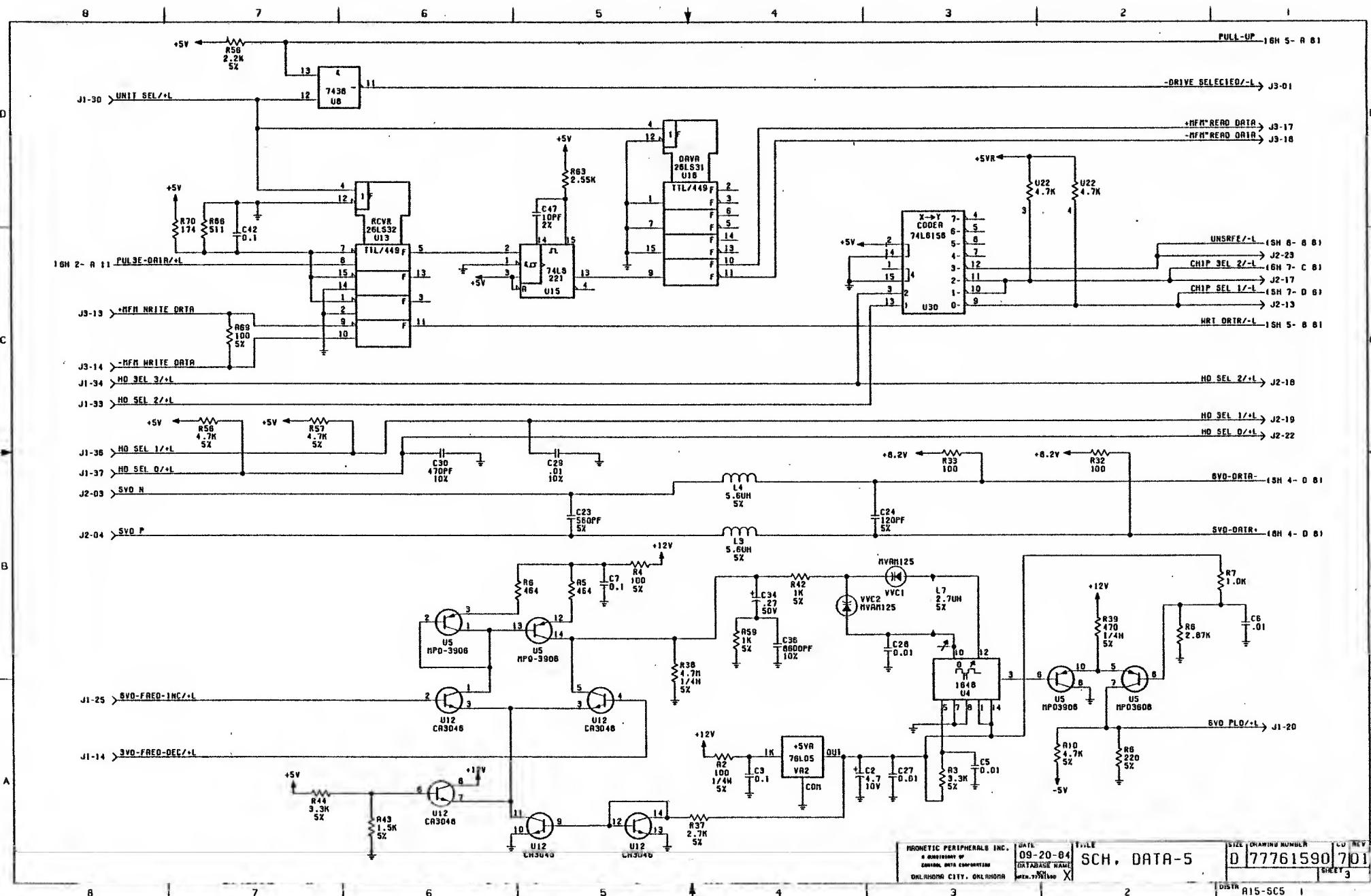


MATERIAL	REINFORCING SPECIFIED DIMENSIONS ARE IN INCHES.	MAGNETIC PERIPHERALS INC.	DNN	REV FUMR	08/20/64	TITLE	SIZE DRAWING NUMBER	CD REV
FINISH	TOLERANCES	C-1000000 A PARABATIC CONTINENTAL AIR CORPORATION OKLAHOMA CITY, OKLAHOMA	GD	DR. COLEMAN	9/21/64	SCH. DATA-5	D 77761590	704
	3 PLACES	ANGLE	ENG'D.	DR. COLEMAN	9/21/64			
	1	+	ENG'D.	DR. COLEMAN	9/21/64			
DO NOT SCALE DRAWINGS		MRN II	MFG				SCALE NONE	SHEET 1 of 7



MAGNETIC PERIPHERALS INC.  
 A SUBSIDIARY OF  
 CONTROL DATA CORPORATION  
 OKLAHOMA CITY, OKLAHOMA  
 DATE 09/20/84  
 DATABASE NAME  
 MECH.77761590 X  
 TITLE SCH. DATA-5  
 SIZE D 77761590 CO 704  
 REV SHEET 2

DIST A23-SC5 I



MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA

DATE  
09-2  
DATABASE  
KJ  
MEN. 7728

0-8

11

LE  
SCH

4.

8

AT

A-

5

10

522

DRAW  
77

176

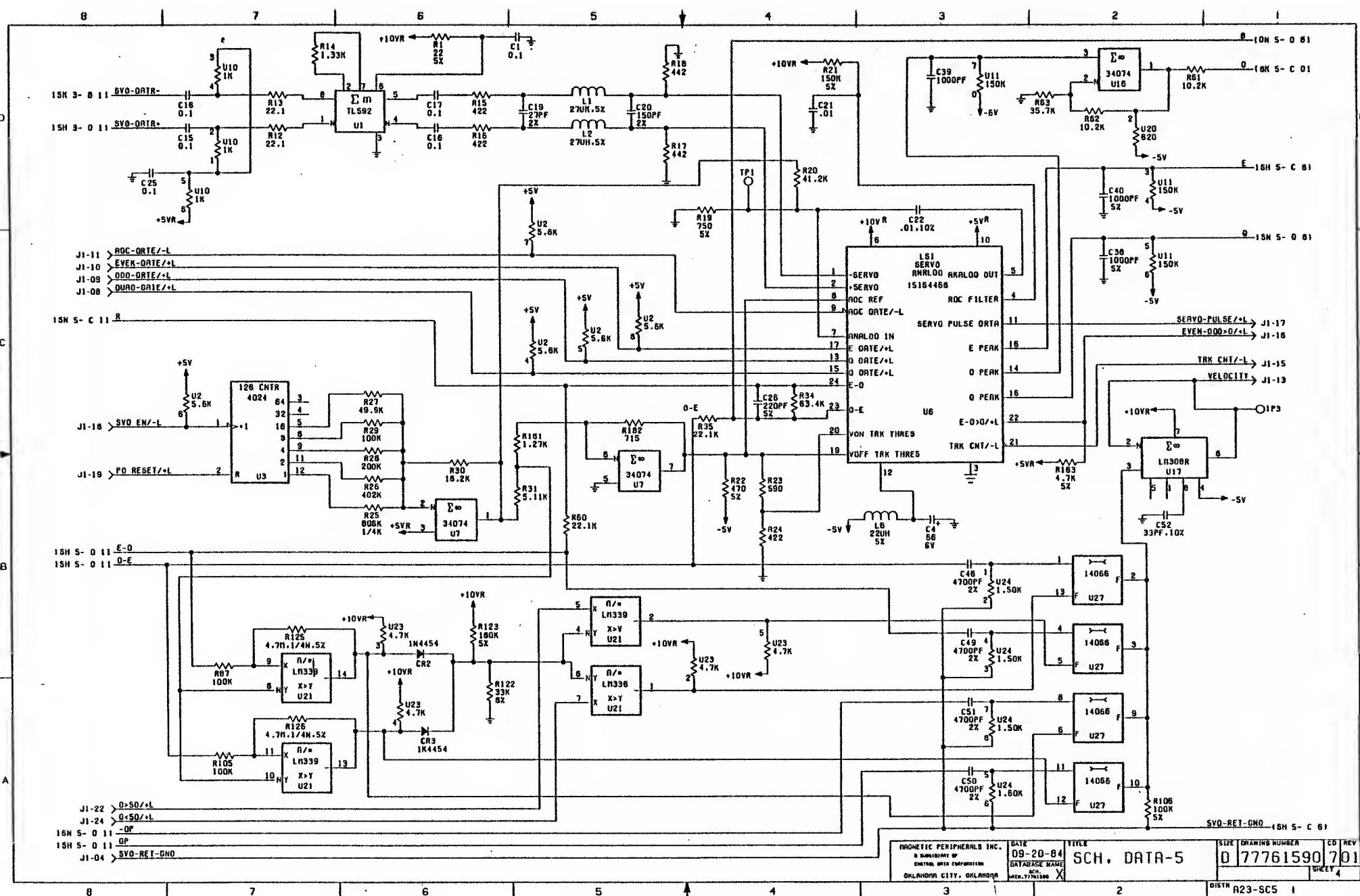
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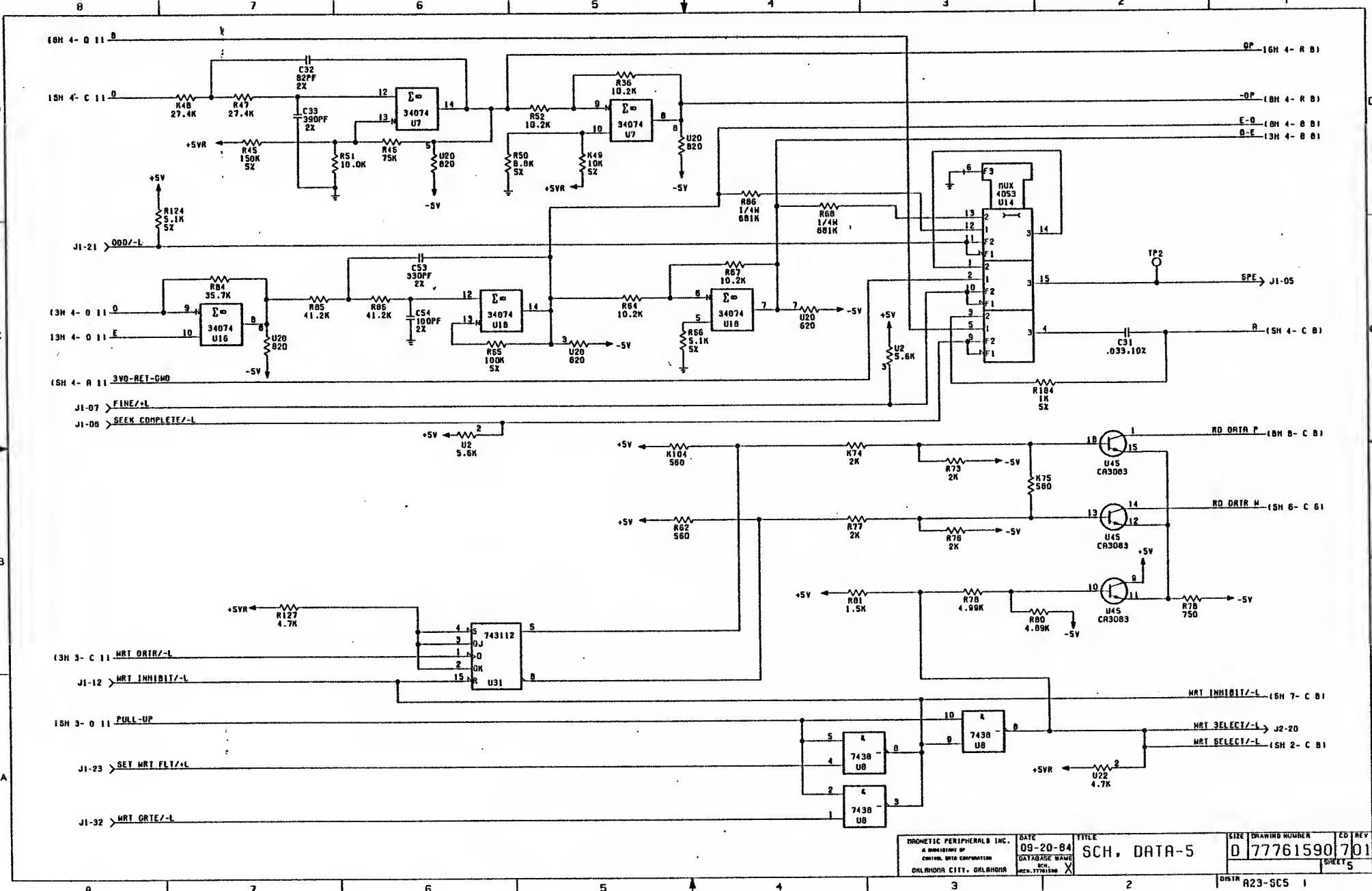
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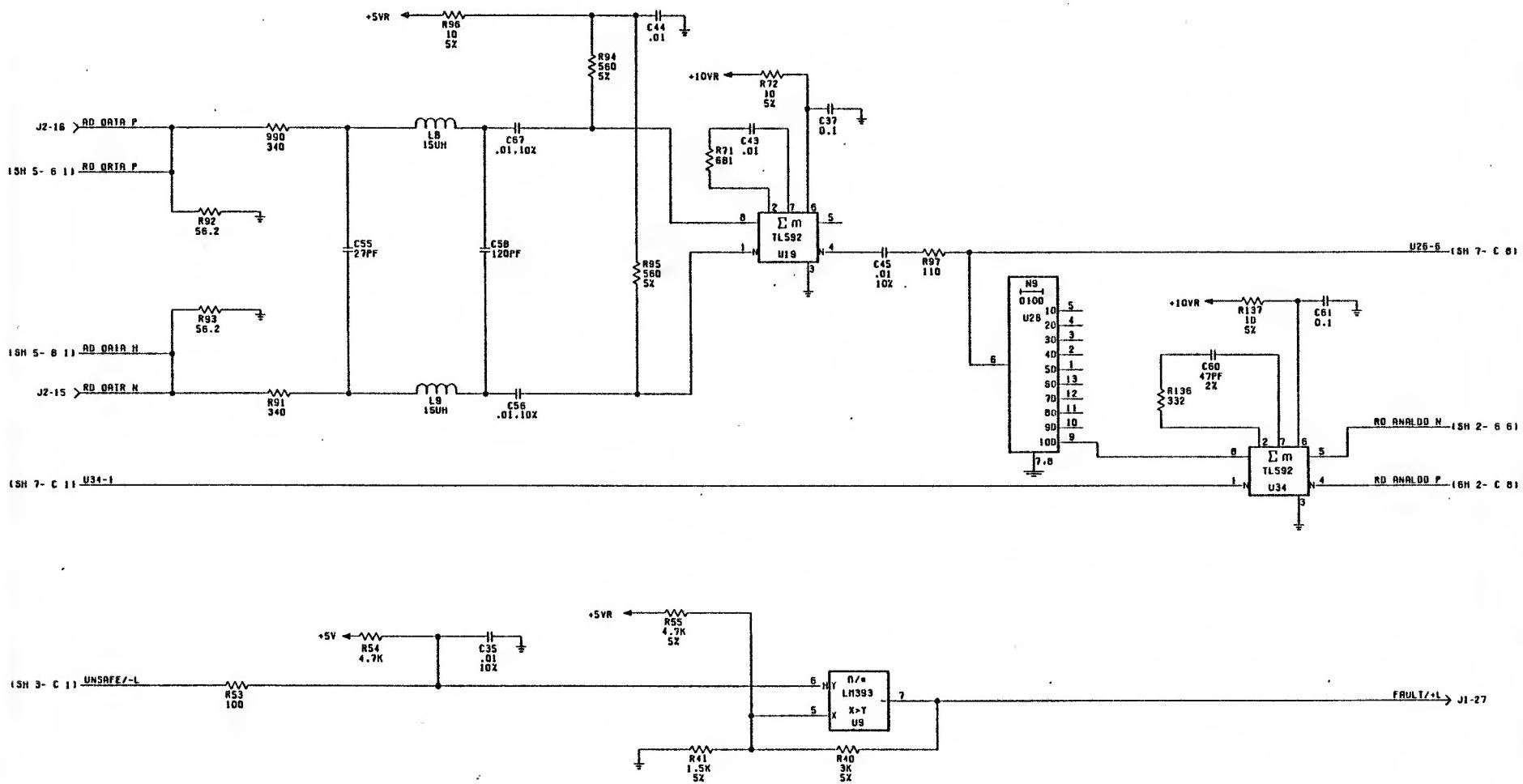
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HEET

101

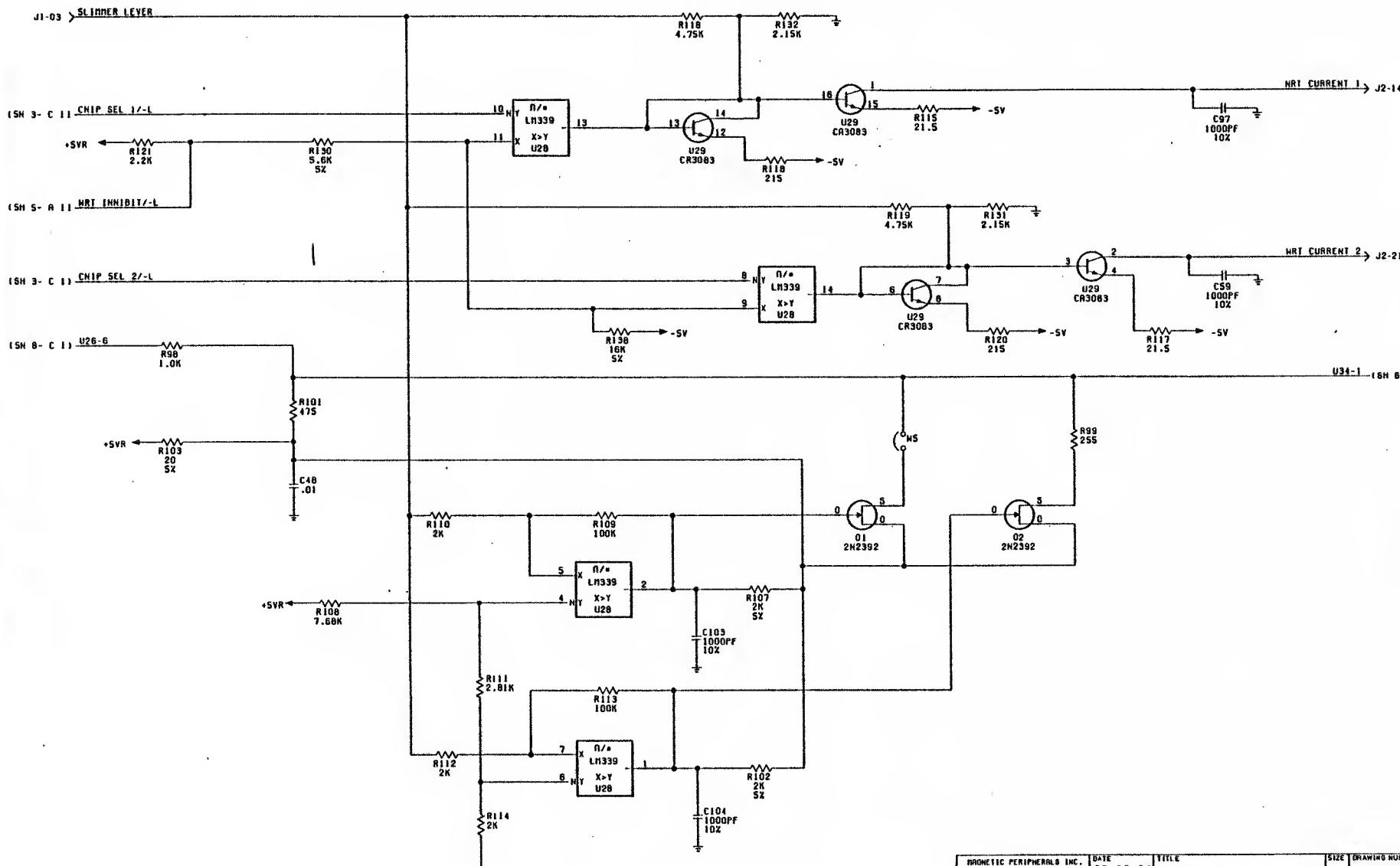
1







8 7 6 5 4 3 2 1



BRONETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DATE 09-20-84	DATA SHEET NAME SCHEMATIC	TITLE SCH. DATA-5	SIZE D	DRAWING NUMBER 77761590	ED 704

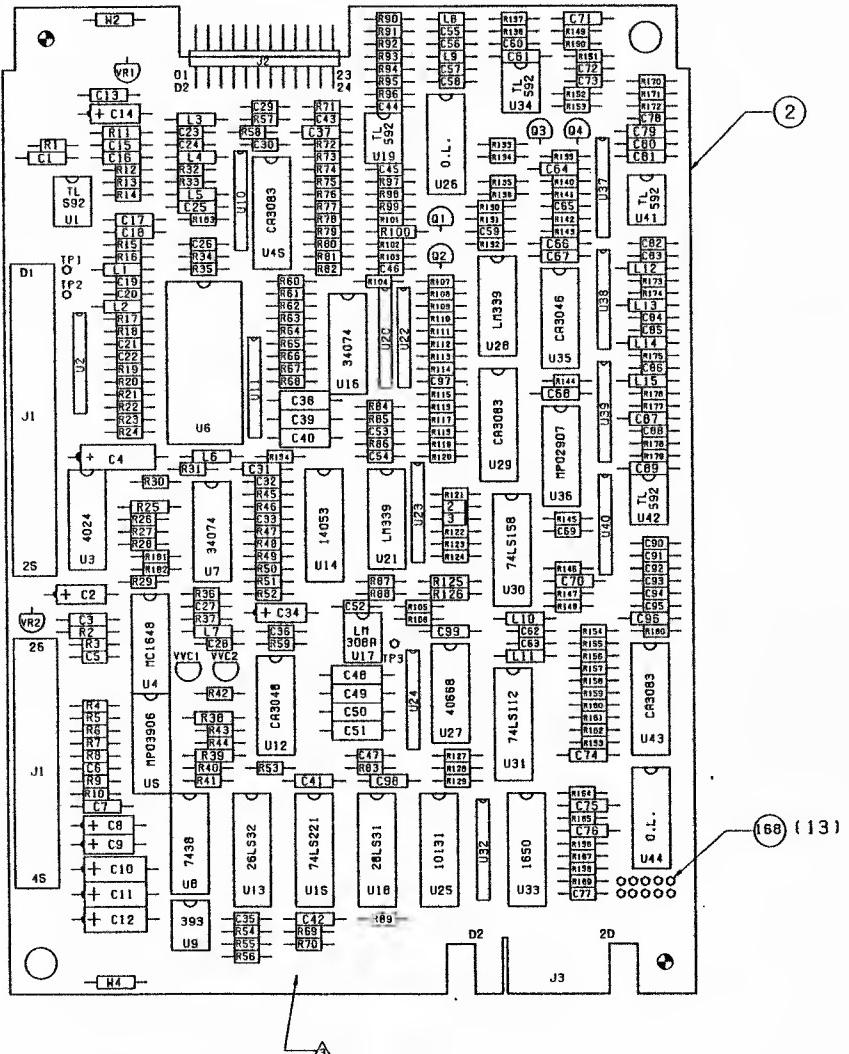
0177761590-7

8 7 6 5 4 3 2 1

DISTR R23-SC5 I

3 2 1

A



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ASSEMBLE PER 5970II27, EXCEPT PARAGRAPH 3.8.3.
  2. MAXIMUM COMPONENT HEIGHT .30 EXCEPT JH-0.3I AND ITEM 16B: 0.25.
  - △ 3. MARK ASSEMBLY NO. IN APPROXIMATE LOCATION SHOWN PER 12A1099P1.
  4. FOR SCHEMATIC DIAGRAM, SEE ITEM I.
  5. COMPONENT MARKING WITHOUT ALPNA PREFIX ARE DIODES.
  6. SOLID BAND ON DIODES AND VOLTAGE REGULATORS INDICATE CATHODE END.
  7. GENERAL WORKMANSHIP PER 10120300.

1. MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN THICKES.	2. RADITRONIC PERIPHERALS INC.	3. OWNED BY SUEIE EVANS	4. TITLE PWA	5. SIZE D DRAWING NUMBER 77762050	6. CO 106
7. DESIGNER	6. A SUBSIDIARY OF GTE ELECTRONIC PRODUCTS CORPORATION	8. CO-DESIGNER D. COLEMAN	9. DATE 03-12-84	10. DATA-5	11. SHEET 1 OF 2	
12. INSTRUMENTATION	3-PLACE 2-PLACE AVAILA	13. C. ENGINEER S. GENHEIMER	14. DATE 03-13-84			
15. DRAWING NO.	DO NOT SCALE DRAWING	16. DRAWING NO. WREN II	17. DRAWING NO. D			
18. REV. 4	19. 3	20. DATA BASE DHO_WREN_77762070	21. 2	22. DISTR. A23-RYS	23. I	

RES	PL ITEM
R1 140	
R2 103	
R3 151	
R4 142	
R5 115	
R6 115	
R7 120	
R8 125	
R9 143	
R10 153	
R11 193	
R12 131	
R13 131	
R14 197	
R15 114	
R16 114	
R17 113	
R18 113	
R19 146	
R20 185	
R21 157	
R22 145	
R23 119	
R24 114	
R25 162	
R26 161	
R27 102	
R28 160	
R28 186	
R30 129	
R31 126	
R32 136	
R33 136	
R34 137	
R35 144	
R36 130	
R37 150	
R38 164	
R39 158	
R40 211	
R41 149	
R42 147	
R43 149	
R44 151	
R45 157	
R46 155	
R47 164	
R48 184	
R49 154	
R50 148	
R51 182	
R52 130	
R53 136	
R54 153	
R55 153	

RES	PL ITEM
R56 108	
R57 153	
R58 153	
R59 147	
R60 144	
R61 130	
R62 130	
R63 133	
R64 130	
R65 156	
R66 152	
R67 130	
R68 165	
R69 118	
R70 105	
R71 218	
R72 139	
R73 167	
R74 167	
R75 121	
R76 167	
R77 167	
R78 146	
R79 123	
R80 123	
R81 149	
R82 121	
R83 132	
R84 133	
R85 185	
R86 185	
R87 186	
R88 165	
R89 142	
R90 180	
R81 180	
R92 117	
R93 117	
R94 121	
R95 121	
R96 138	
R97 136	
R98 109	
R104 121	
R105 186	
R106 156	
R107 207	
R108 202	
R109 196	
R110 167	

RES	PL ITEM
R111 201	
R112 167	
R113 196	
R114 167	
R115 203	
R116 206	
R117 203	
R118 204	
R119 206	
R120 204	
R121 188	
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R128 154	
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R153 122	
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R155 138	
R156 106	
R157 125	
R158 120	
R159 106	
R160 107	
R161 125	
R162 112	
R163 112	
R164 190	
R165 190	

RES	PL ITEM
R166 139	
R167 147	
R168 187	
R169 115	
R170 115	
R171 115	
R172 111	
R173 163	
R174 183	
R175 214	
R176 110	
R177 110	
R178 197	
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R181 124	
R182 166	
R183 153	
R184 147	
C1 77	
C2 95	
C3 77	
C4 96	
C5 75	
C6 75	
C7 77	
C8 94	
C9 95	
C10 98	
C11 98	
C12 96	
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C22 99	
C23 178	
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C25 77	
C26 92	
C27 75	
C28 75	
C29 99	
C30 100	
C31 76	
C32 81	
C33 87	
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C38 90	
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C40 90	
C41 77	
C42 77	
C43 75	
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C45 99	
C46 75	
C47 86	
C48 88	
C49 88	
C50 88	
C51 88	
C52 79	
C53 85	
C54 82	
C55 78	

CAP	PL ITEM
U1 17	
U2 42	
U3 9	
U4 5	
U5 12	
U6 24	
U7 15	
U8 19	
U9 19	
U10 36	
U11 44	
U12 13	
U13 29	
U14 7	
U15 25	
U16 15	
U17 27	
U18 28	
U19 17	
U20 37	
U21 16	
U22 39	
U23 39	
U24 40	
U25 21	
U26 30	
U27 8	
U28 16	
U29 14	
U30 23	
U31 26	
U32 35	
U33 8	
U34 17	
U35 13	
U36 11	
U37 43	
U38 31	
U39 36	
U40 38	
U41 17	
U42 17	
U43 14	
U44 30	
U45 14	

IC	PL ITEM
DID PL ITEM	
CR1 -	
CR2 50	
CR3 50	

INO	PL ITEM
L1 59	
L2 59	
L3 56	
L4 56	
L5 60	
L6 61	
L7 54	
L8 57	
L9 57	
L10 60	
L11 60	
L12 54	
L13 54	
L14 56	
L15 56	

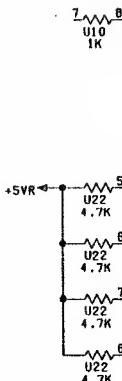
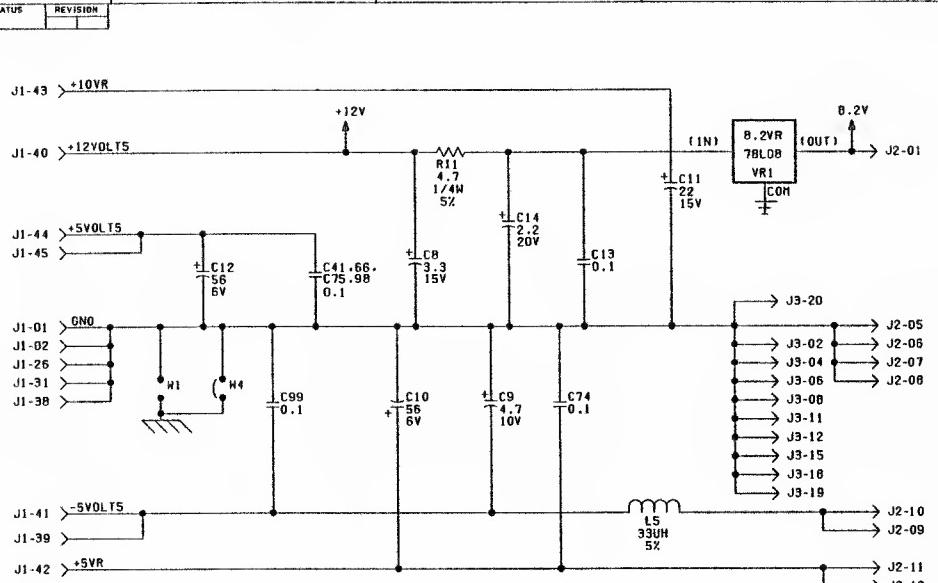
TSTR	PL ITEM
01 52	
02 52	
03 52	
04 52	

VARI	PL ITEM
VAC	
VVC1 49	
VVC2 49	

MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
DATE 03-12-84  
FILE NUMBER X  
000.0000.777620501  
TITLE PWA.DAT-A-5  
SIZE D 777620501 106  
REV C6  
D 777620501 106  
F 2 F  
SHEET 2 F

8 7 6 5 4 3 2 1

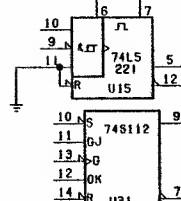
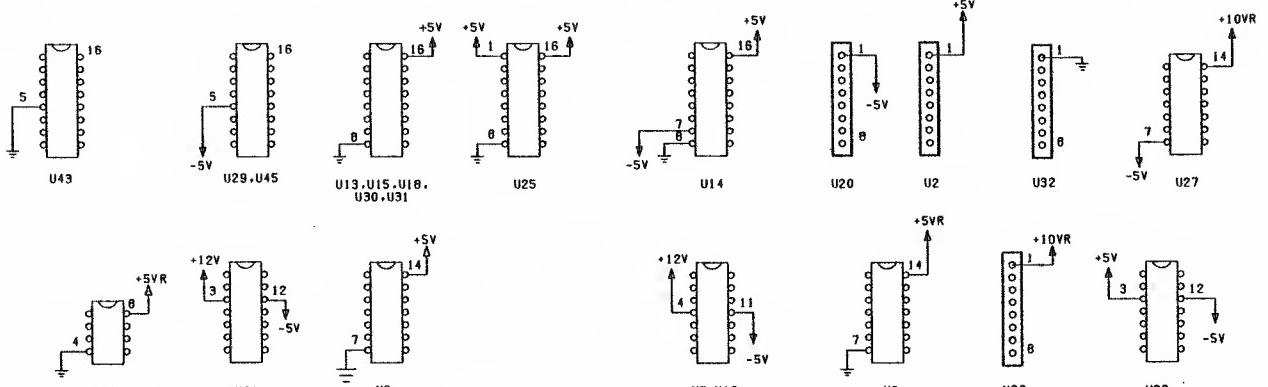
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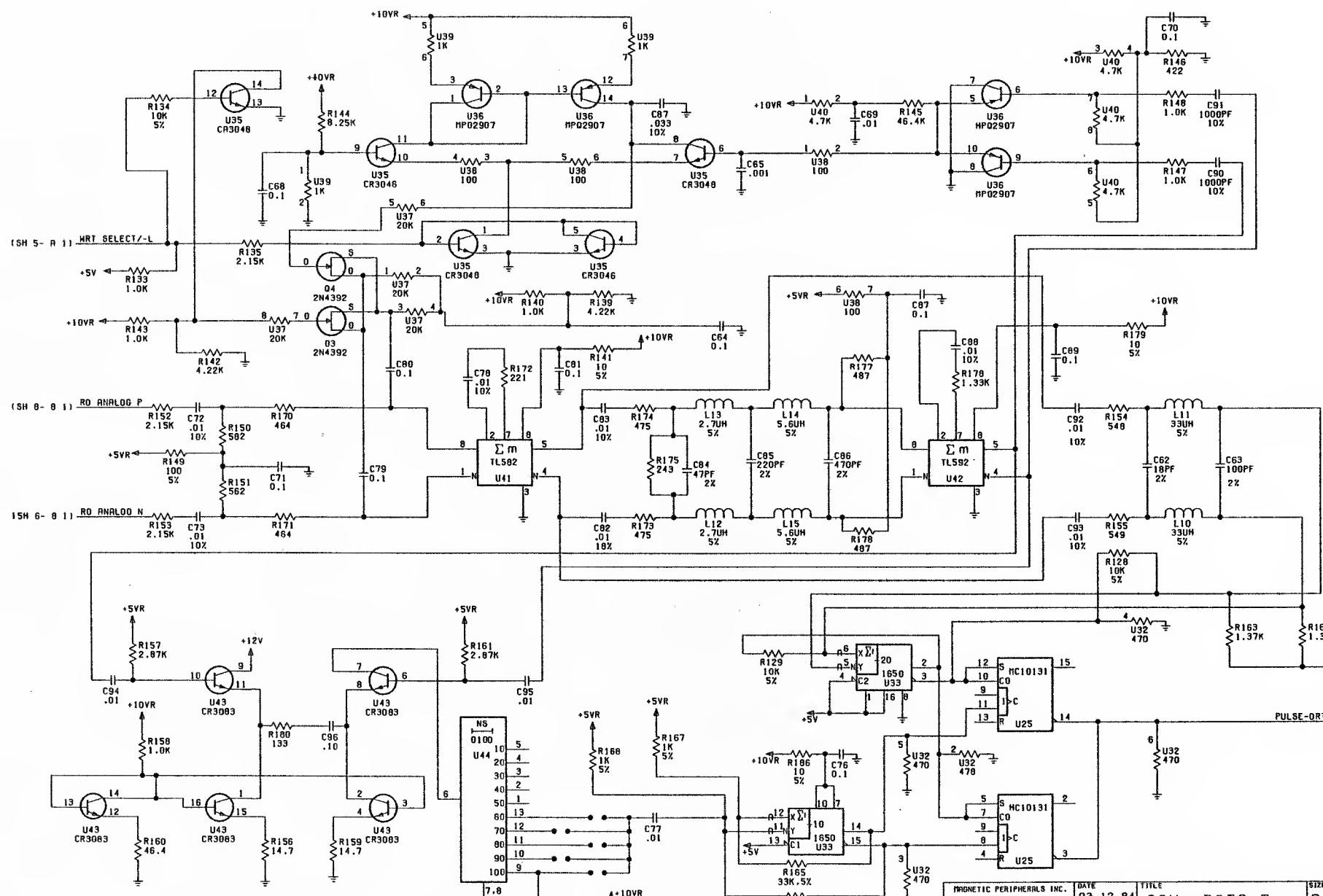


NOTES: (UNLESS OTHERWISE SPECIFIED)

1. DRAWING INTERPRETATION PER 43A226599
  2. RESISTOR VALUES ARE IN OHMS, 1/8W±1%, UNLESS INDICATED
  3. CAPACITOR VALUES ARE IN MICROFARADS, UNLESS INDICATED

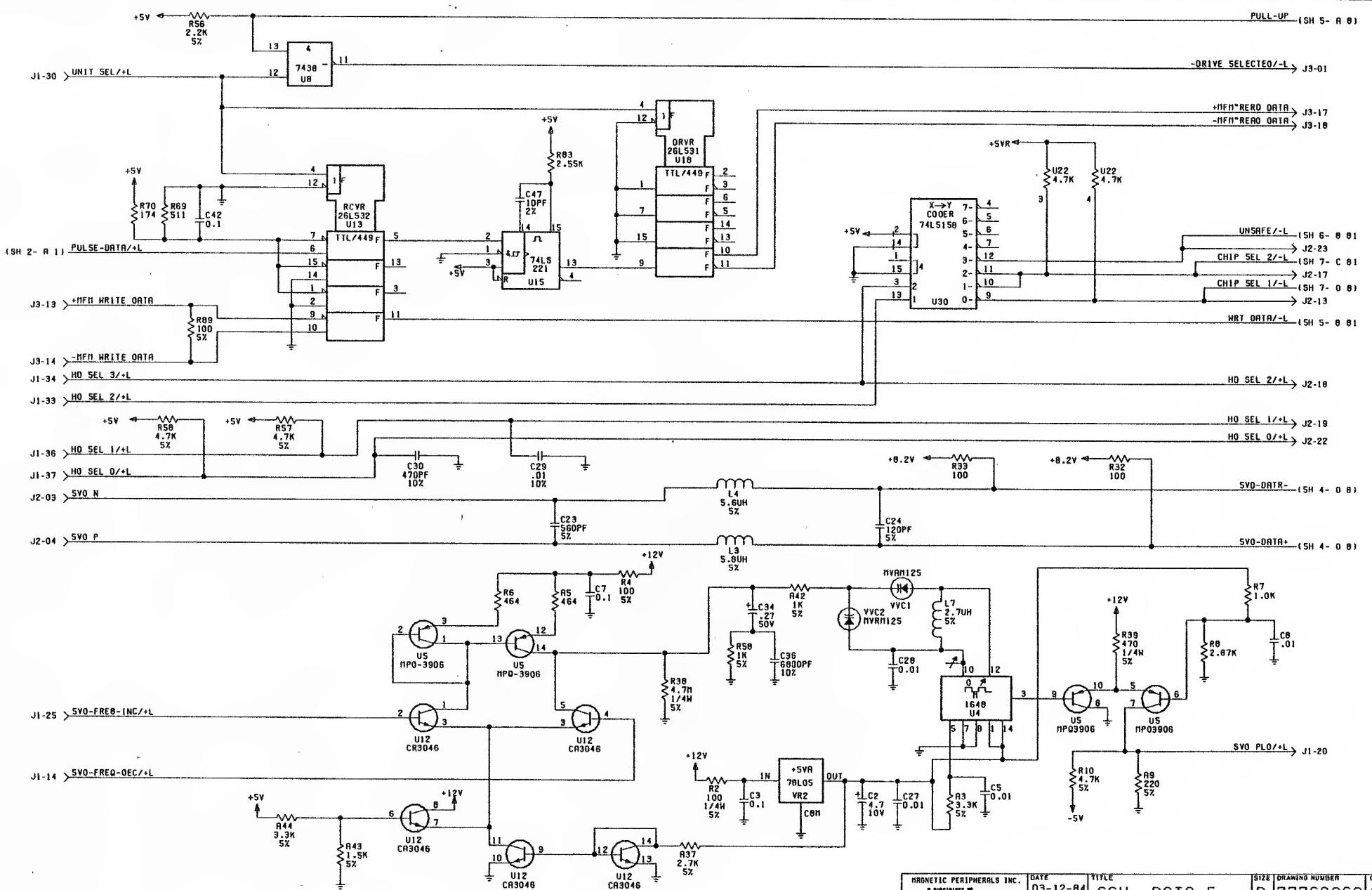
## SPARES





MAGNETIC PERIPHERALS INC. DATE 03-12-84 TITLE SCH., DATA-5 SIZE D DRAWING NUMBER 004  
A DIVISION OF 077762060 REV  
CENTRAL DATA CORPORATION SHEET 2  
OKLAHOMA CITY, OKLAHOMA 73102-2000 X

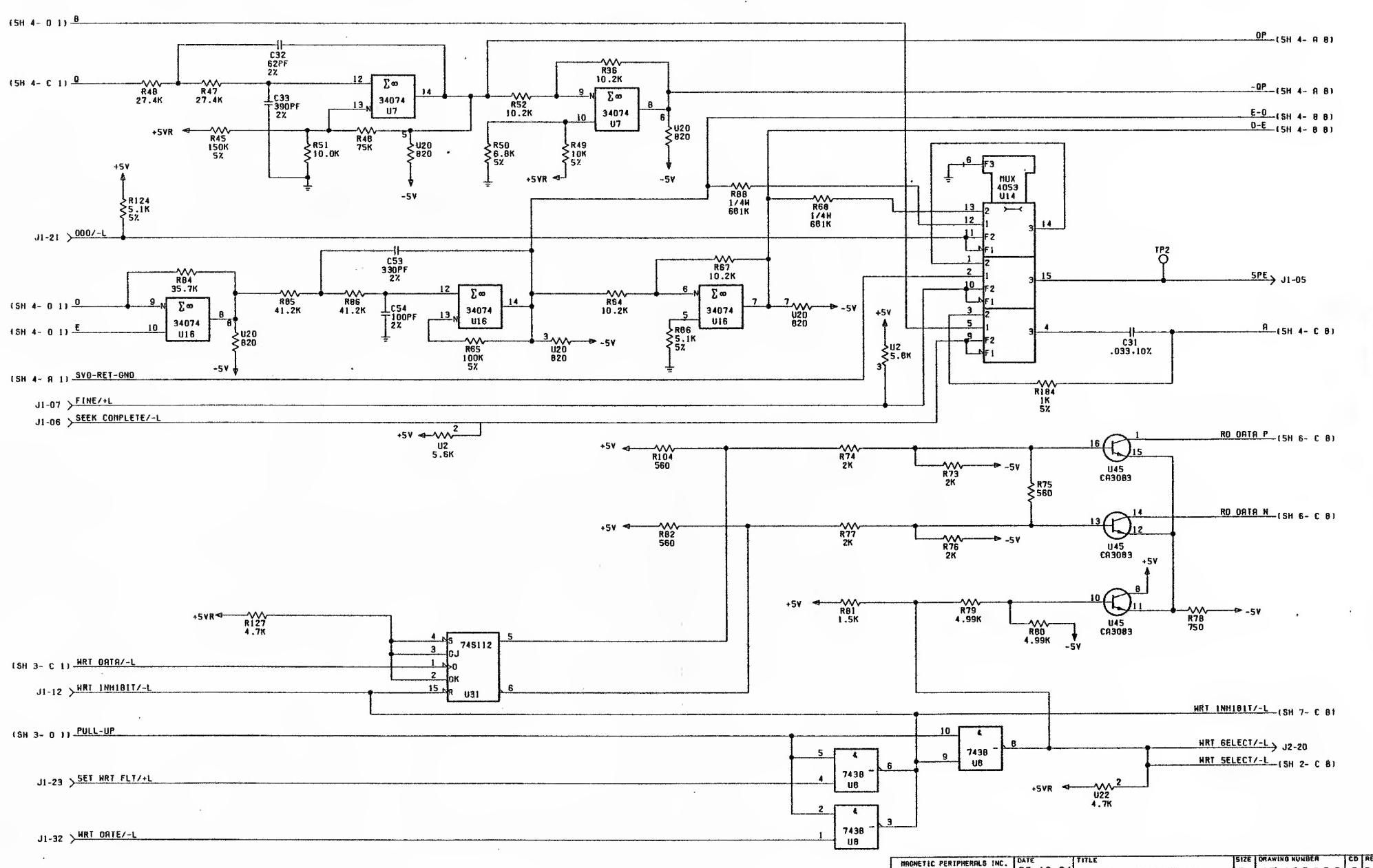
DIST# A23-SCS 1



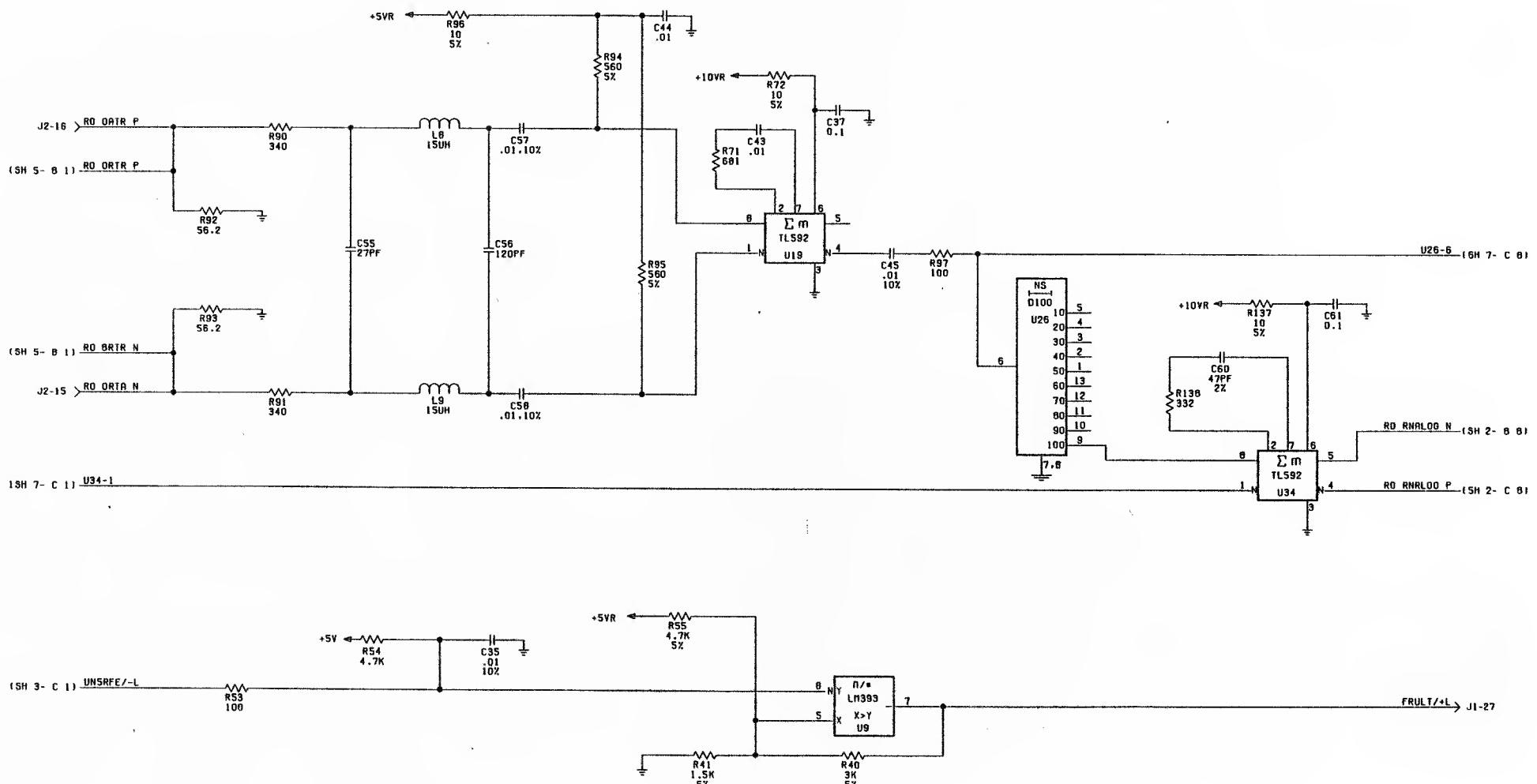
MAGNETIC PERIPHERALS INC. DATE 03-12-84  
 A SUBSIDIARY OF DATABASE NAME SCH.  
 CONTROL DATA CORPORATION NUMBER 77762060  
 OKLAHOMA CITY, OKLAHOMA SHEET 3  
 SIZE D DRAWING NUMBER D 77762060 002  
 REV

8 7 6 5 4 3 2 1 DISTR A15-SC5 1





MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF COMTRONIC DATA CORPORATION		TITLE	SIZE	DRAWING NUMBER	CD	REV
OKLAHOMA CITY, OKLAHOMA		SCH., DATA-5	D	77762060	005	
		DATA SHEET	5			

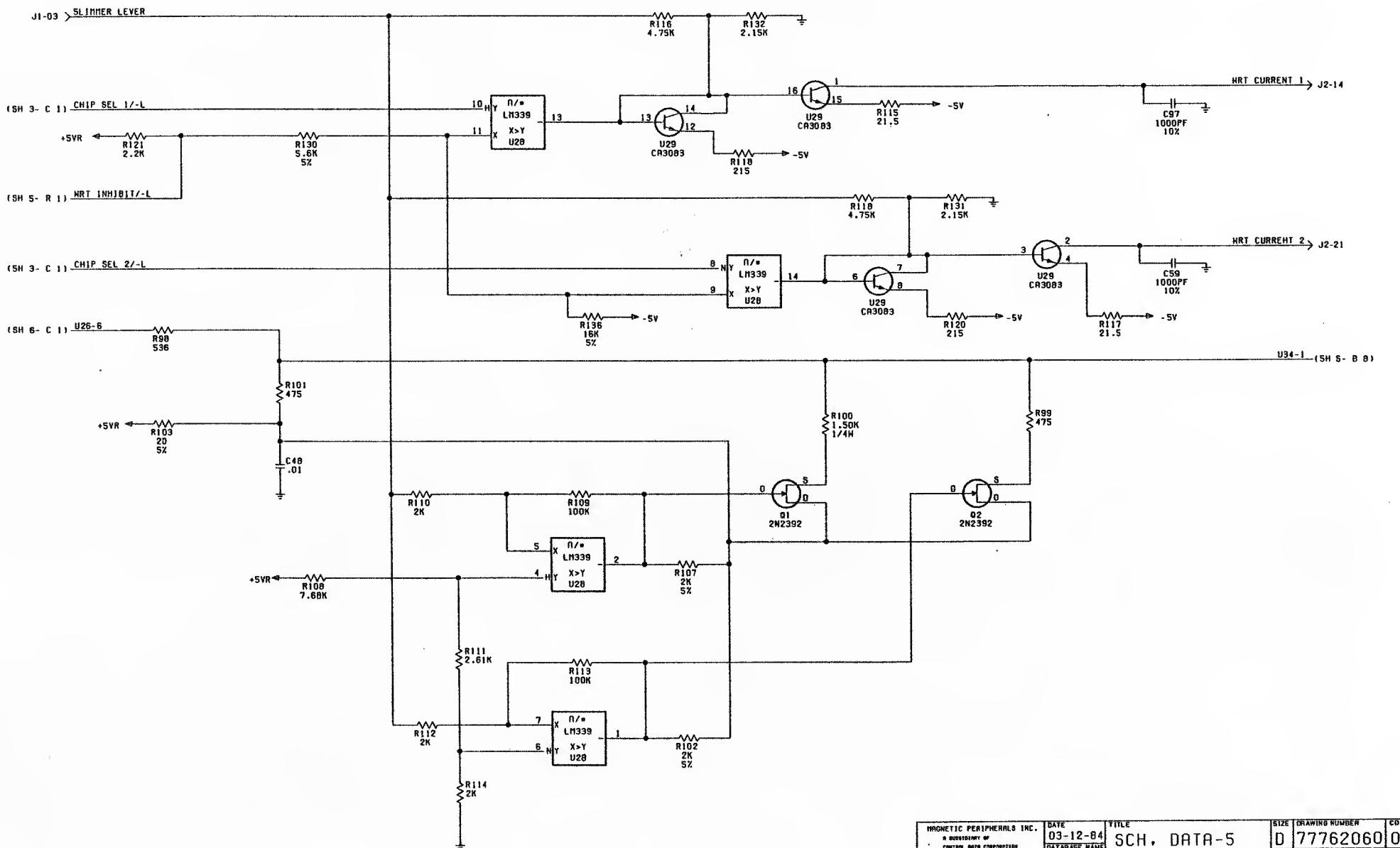


MAGNETIC PERIPHERALS INC  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA

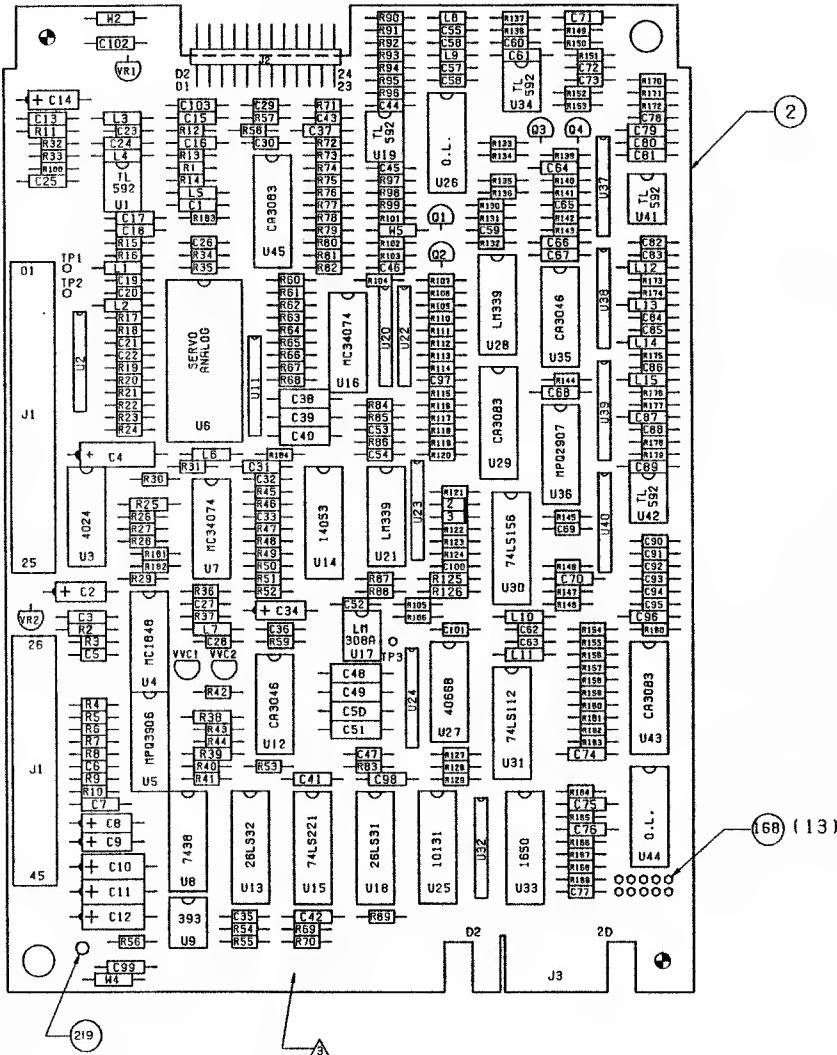
DATE
D3-12-84
DATABASE NAME
RCH.
MRM.77782000 X

**SCH. DATA-5**

SIZE	DRAWING NUMBER	CD	REV
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	SHEET	6	



SHEET REVISION STATUS		REVISION RECORD			
REV	ECB	DMY	CRS	DATE	
FOR DOCUMENT STATUS SEE REVISION STATUS SHEET					



RES	PL ITEM
R1	140
R2	103
R3	151
R4	142
R5	115
R6	115
R7	120
R8	125
R9	143
R10	153
R11	193
R12	131
R13	131
R14	197
R15	114
R16	114
R17	113
R18	113
R19	146
R20	185
R21	157
R22	145
R23	119
R24	114
R25	162
R26	161
R27	102
R28	160
R29	186
R30	129
R31	126
R32	135
R33	135
R34	137
R35	144
R36	130
R37	150
R38	164
R39	158
R40	211
R41	149
R42	147
R43	149
R44	151
R45	157
R46	155
R47	184
R48	184
R49	154
R50	148
R51	182
R52	130
R53	196
R54	153
R55	153

RES	PL ITEM
R56	188
R57	153
R58	153
R59	147
R60	144
R61	130
R62	130
R63	133
R64	130
R65	158
R66	152
R67	130
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R69	116
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R98	120
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R100	147
R101	163
R102	207
R103	208
R104	121
R105	186
R106	156
R107	207
R108	202
R109	196
R110	167

RES	PL ITEM
R111	201
R112	167
R113	196
R114	167
R115	203
R116	206
R117	203
R118	204
R119	206
R120	204
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R122	190
R123	192
R124	152
R125	139
R126	163
R127	214
R128	110
R129	110
R130	197
R131	139
R132	106
R133	124
R134	153
R135	166
R136	166
R137	139
R138	181
R139	127
R140	120
R141	139
R142	127
R143	120
R144	128
R145	134
R146	114
R147	120
R148	120
R149	142
R150	118
R151	118
R152	122
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R155	138
R156	106
R157	125
R158	120
R159	106
R160	107
R161	125
R162	112
R163	112
R164	190
R165	190

CAP	PL ITEM
C1	77
C2	95
C3	77
C4	96
C5	75
C6	171
C7	77
C8	75
C9	94
C10	96
C11	98
C12	96
C13	77
C14	174
C15	77
C16	77
C17	77
C18	77
C19	78
C20	83
C21	75
C22	99
C23	176
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C28	75
C29	99
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C37	77
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C40	90
C41	77
C42	77
C43	75
C44	75
C45	99
C46	75
C47	86
C48	86
C49	88
C50	86
C51	88
C52	76
C53	85
C54	82
C55	76

CAP	PL ITEM
U1	17
U2	42
U3	8
U4	5
U5	12
U6	24
U7	15
U8	19
U9	18
U10	-
U11	44
U12	19
U13	29
U14	7
U15	25
U16	15
U17	27
U18	28
U19	17
U20	37
U21	16
U22	39
U23	39
U24	40
U25	21
U26	30
U27	8
U28	16
U29	14
U30	29
U31	26
U32	35
U33	6
U34	17
U35	13
U36	11
U37	49
U38	31
U39	36
U40	38
U41	17
U42	17
U43	14
U44	30
U45	14

IC	PL ITEM
C10	PL ITEM
CR1	-
CR2	50
CR3	50

IND	PL ITEM
L1	59
L2	59
L3	56
L4	56
L5	60
L6	61
L7	54
L8	57
L9	57
L10	60
L11	60
L12	54
L13	54
L14	56
L15	56

TSTR	PL ITEM
Q1	52
Q2	52
Q3	52
Q4	52

JUMP	PL ITEM
J1	66
J2	67
J3	-
J4	194
J5	194

MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA

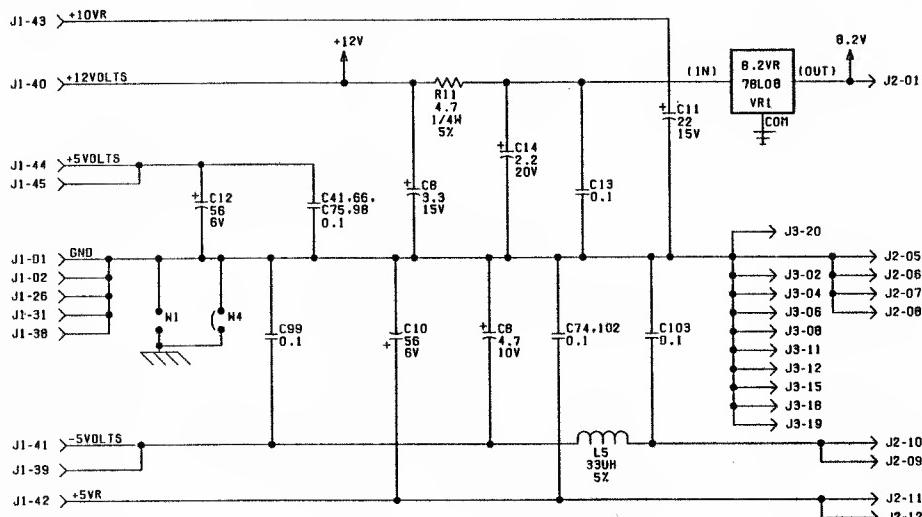
DATE 09-27-84  
DATABASE X  
FILE NUMBER 77763450-201

TITLE PWA-DATA-5  
SIZE D 77763450 201  
CD REV

DISTR A23-RY5 I  
SHEET 2 F

IDENT. NO. CD STATUS REVISION

SHEET REVISION STATUS								REVISION RECORD			
7	6	5	4	3	2	1	REV	REQ	DMY	CMD	DATE
01	01	01	01	01	01	01	01	01	01	01	04-1972



U10  
1K

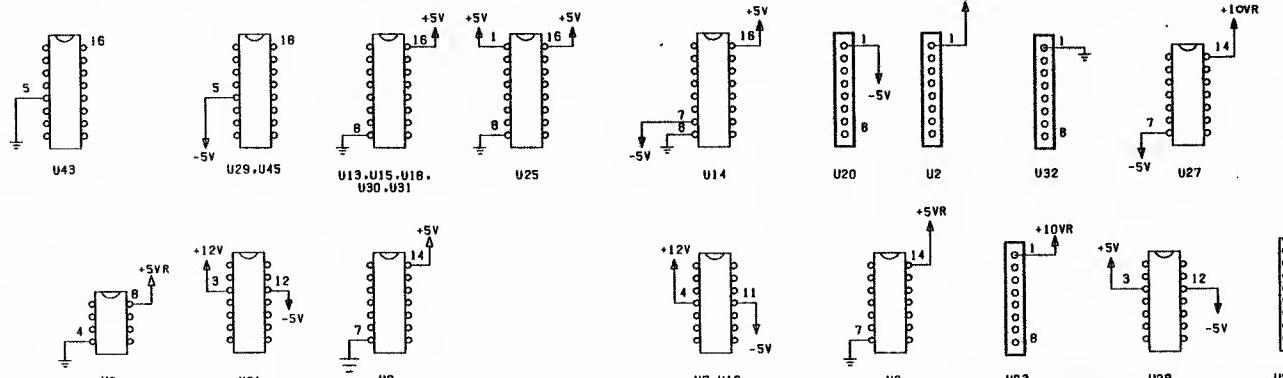
+5VR  
U22  
4.7k  
U22  
4.7k  
U22  
4.7k  
U22  
4.7k

#### NOTES: (UNLESS OTHERWISE SPECIFIED)

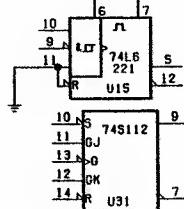
1. DRAWING INTERPRETATION PER 43A226599
2. RESISTOR VALUES ARE IN OHMS. 1/8W ± 1%. UNLESS INDICATED
3. CAPACITOR VALUES ARE IN MICROFARADS. UNLESS INDICATED

J1-35 > RESERVED > J3-07

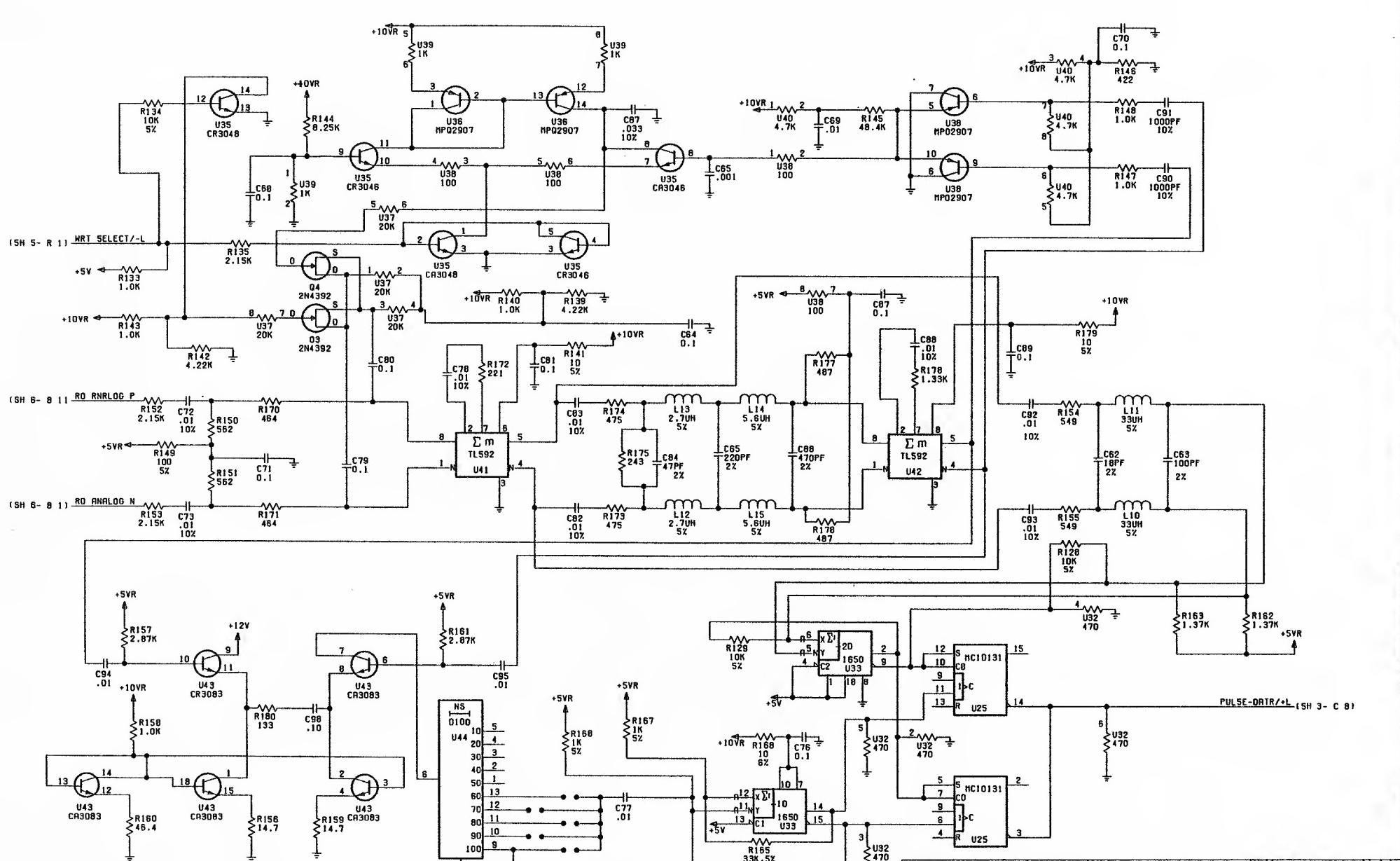
J2-02 > FRAME GND  
J2-24 >



#### SPARES



MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES. TOLERANCES ARE IN MILLIMETERS. 3-PLACE 2-PLACE ANGLES			HONEYCOMB PERIPHERALS INC.	DRAWN TON NO.	09/27/84	TITLE	SIZE	DRAWING NUMBER	CO	REV
FINISH				74LS221 SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	CHD D. Johnson	10/10/84					
DO NOT SCALE DRAWING				ENR S. Johnson	10-1-84						
DATA BASE SCH.HREN.77763460			WREN II			DISTR A23-SC5			X		



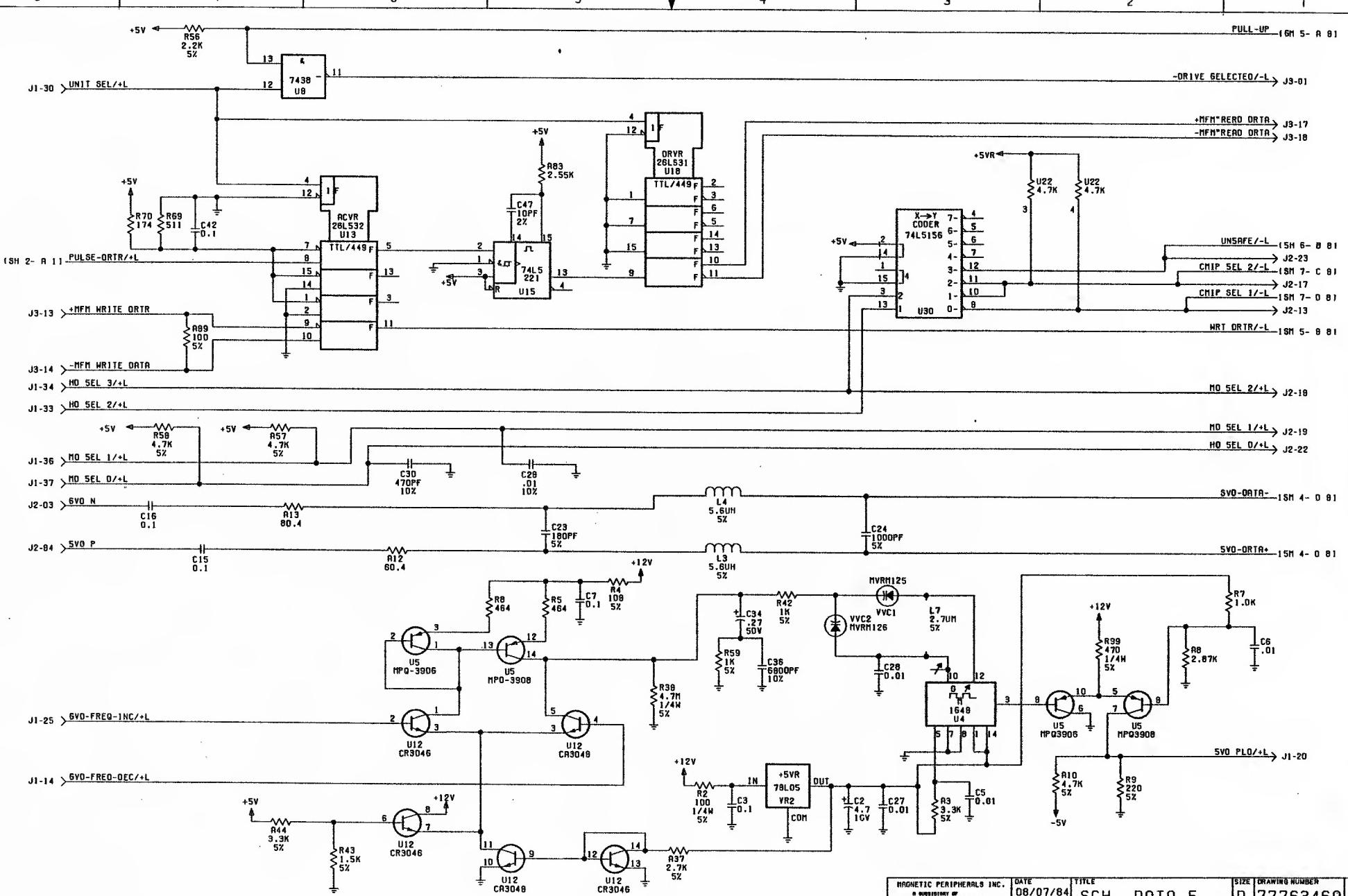
KINETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
REF. 77763460 X

DATE 08/07/84 TITLE SCH. DATA-5  
DATABASE NAME SCH  
REV. 101

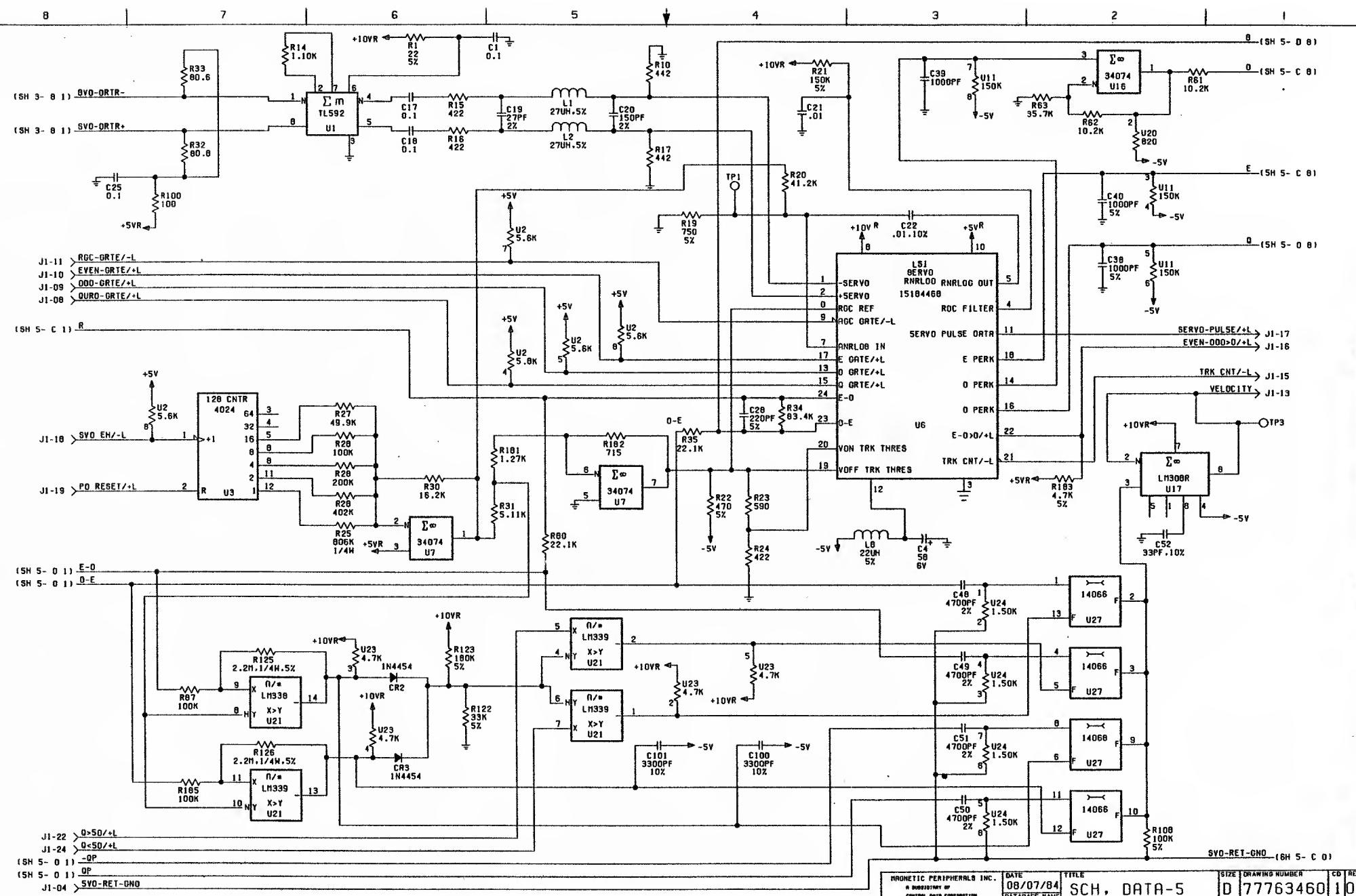
SIZE D 77763460 101  
DRAWING NUMBER

CD REV

DISTR R23-SC5 I SHEET 2



MAGNETIC PERIPHERALS INC.		DATE	TITLE	SIZE	DRAWING NUMBER	CD	REV.
A SUBSIDIARY OF CONTROL DATA CORPORATION		08/07/84	SCH., DATA-5	D	77763460	10	
OKLAHOMA CITY, OKLAHOMA		DATA SHEET NAME					
		MCN.77763460-X	X				
						SHEET	3



MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
DATE 08/07/84  
DATABASE NAME SCH  
REV. 77763460 X

SCH. DATA-5

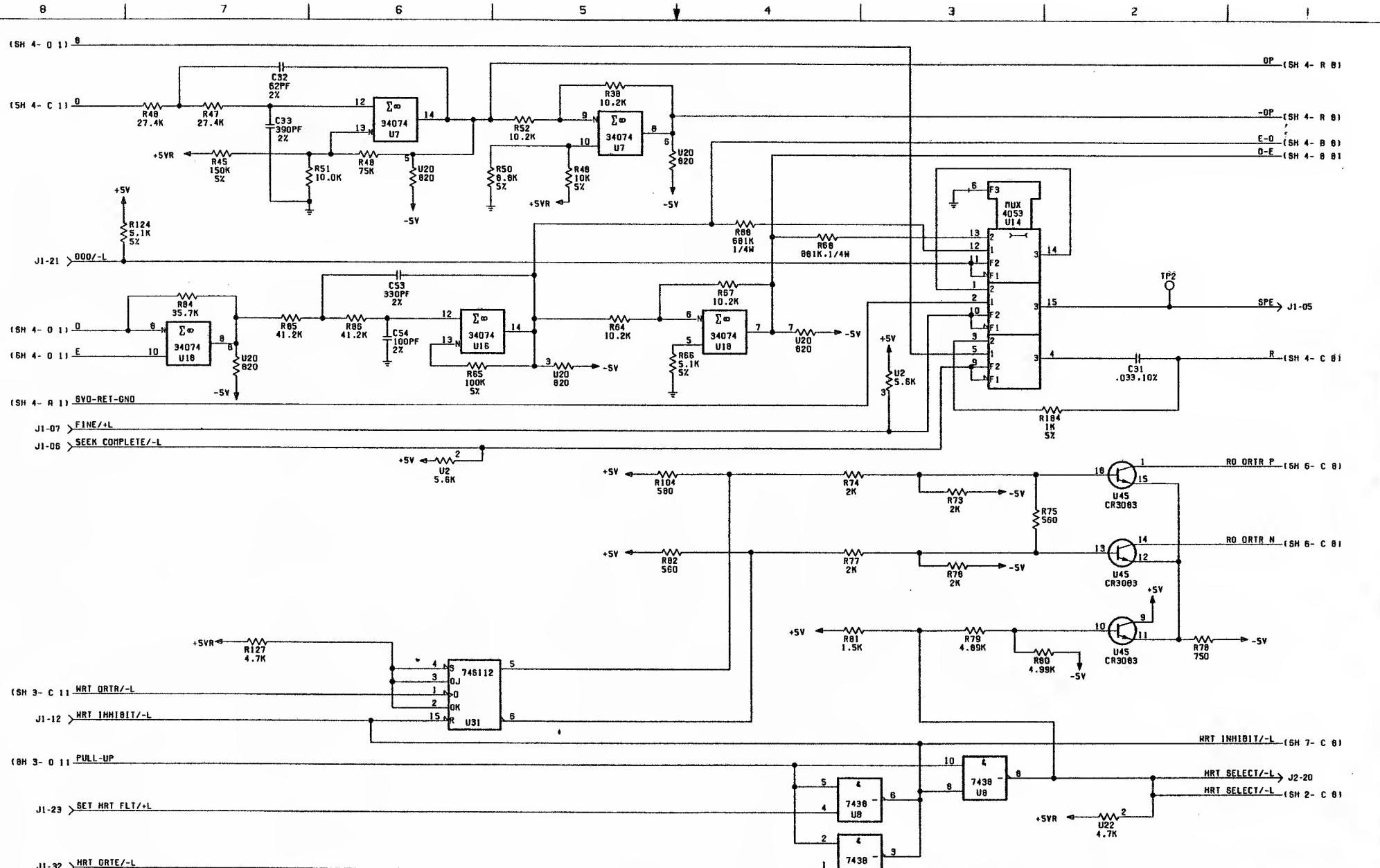
SIZE D 77763460 101

CD REV

101

SHEET 4

DISTR A23-SC5 1

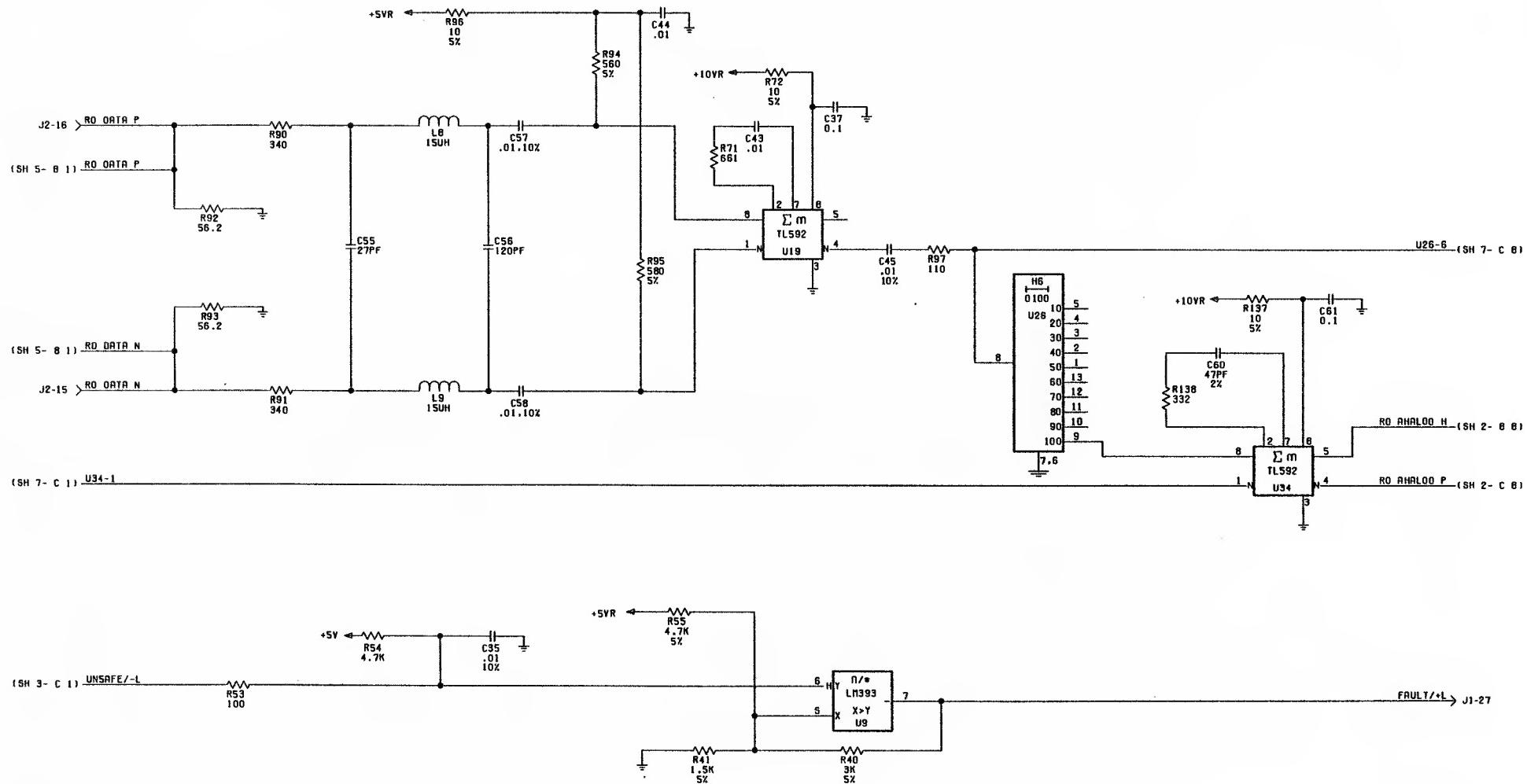


MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA

14 TITLE  
SCH., DATA-5

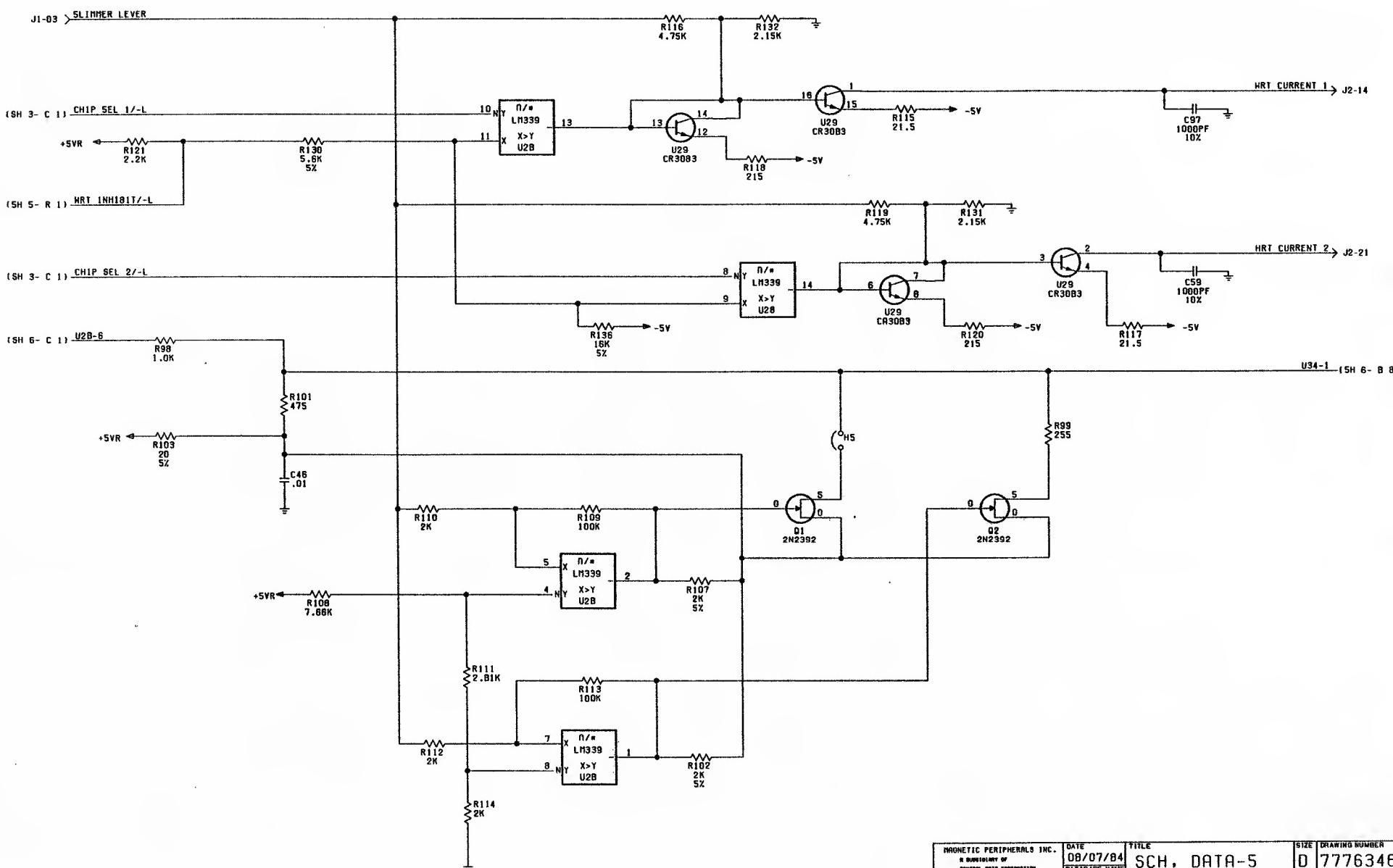
SIZE	DRAWING NUMBER	CD	REV
D	77763460	101	
SHEET 5			

8 7 6 5 4 3 2 1



IRONETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA MCN:7773460	DATE 08/07/84 DATABASE NAME ICN: MCN:7773460 X	TITLE SCH., DATA-5	SIZE D	DRAWING NUMBER 77763460	CD REV 101
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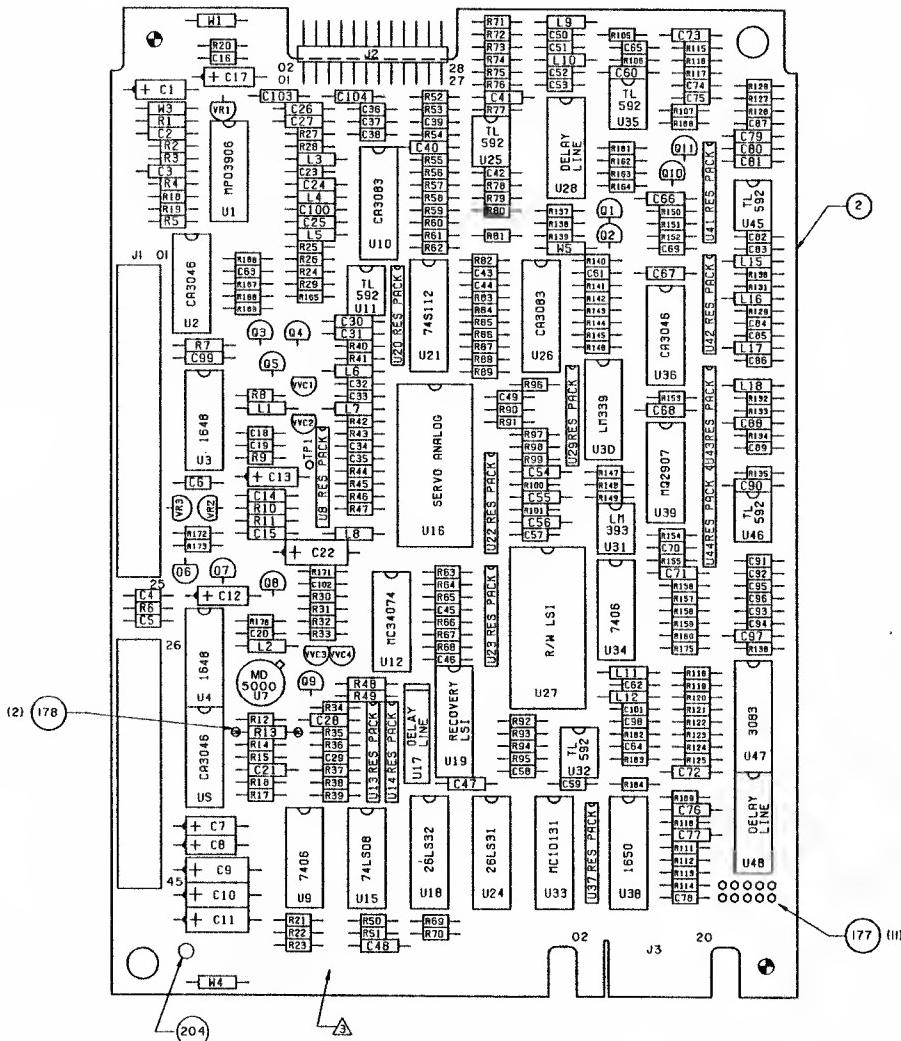
8 7 6 5 4 3 2 1      DISTR A23-SCS I      A 6



MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA MEN-77763460	DATE 08/07/84 DATABASE NAME SCH REV X	TITLE SCH, DATA-5	SIZE D 77763460	DRAWING NUMBER 101
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DISTR A23-SC5 I

SHEET REVISION STATUS		REVISION RECORD			
REV	ECN	DRFT	DRW	DATE	
FOR DOCUMENT STATUS SEE REVISION STATUS SHEET					



8

7

6

5

4

3

2

1

RES	PL ITEM
R1	169
R2	115
R3	115
R4	142
R5	150
R6	151
R7	164
R8	147
R9	151
R10	171
R11	171
R12	142
R13	175
R14	121
R15	172
R16	110
R17	158
R18	151
R19	149
R20	147
R21	149
R22	116
R23	135
R24	-
R25	136
R26	136
R27	131
R28	131
R29	174
R30	130
R31	133
R32	111
R33	112
R34	116
R35	129
R36	124
R37	143
R38	120
R39	123
R40	114
R41	114
R42	113
R43	113
R44	146
R45	126
R46	145
R47	157
R48	148
R49	152
R50	153
R51	132
R52	136
R53	139
R54	189
R55	190

RES	PL ITEM
R56	190
R57	198
R58	190
R59	190
R60	146
R61	192
R62	193
R63	160
R64	155
R65	157
R66	162
R67	130
R68	133
R69	136
R70	136
R71	180
R72	180
R73	184
R74	184
R75	198
R76	198
R77	117
R78	172
R79	198
R80	198
R81	149
R82	166
R83	183
R84	183
R85	185
R86	161
R87	109
R88	185
R89	153
R90	137
R91	202
R92	182
R93	145
R94	182
R95	145
R96	201
R97	191
R98	194
R99	119
R100	114
R101	162
R102	109
R103	154
R104	154
R105	139
R106	144
R107	122
R108	122
R109	168
R110	168

RES	PL ITEM
R111	139
R112	147
R113	147
R114	165
R115	142
R116	118
R117	116
R118	173
R119	125
R120	120
R121	173
R122	107
R123	125
R124	163
R125	163
R126	115
R127	115
R128	170
R129	141
R130	179
R131	179
R132	187
R133	187
R134	174
R135	139
R136	108
R137	120
R138	186
R139	179
R140	197
R141	199
R142	199
R143	109
R144	161
R145	196
R146	196
R147	149
R148	153
R149	200
R150	127
R151	120
R152	139
R153	128
R154	134
R155	114
R156	120
R157	120
R158	127
R159	188
R160	153
R161	122
R162	195
R163	127
R164	120
R165	140

RES	PL ITEM
R166	120
R167	159
R168	181
R169	144
R170	120
R171	159
R172	181
R173	144
R174	-
R175	203

CAP	PL ITEM
C1	64
C2	77
C3	77
C4	75
C5	75
C6	75
C7	94
C8	95
C9	98
C10	97
C11	97
C12	95
C13	95
C14	77
C15	77
C16	91
C17	93
C18	75
C19	75
C20	75
C21	77
C22	97
C23	103
C24	102
C25	77
C26	77
C27	77
C28	76
C29	103
C30	77
C31	77
C32*	78
C33	63
C34	75
C35	99
C36	99
C37	99
C38	99
C39	75
C40	77
C41	77
C42	99
C43	89
C44	89
C45	87
C46	75
C47	77
C48	77
C49	92
C50	78
C51	82
C52	99
C53	99
C54	90
C55	90

CAP	PL ITEM
C56	90
C57	81
C58	99
C59	99
C60	77
C61	75
C62	79
C63	75
C64	75
C65	69
C66	77
C67	76
C68	77
C69	74
C70	75
C71	77
C72	77
C73	77
C74	99
C75	99
C76	77
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C78	75
C79	77
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C81	77
C82	99
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C85	73
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C89	21
C90	77
C91	89
C92	89
C93	99
C94	99
C95	75
C96	75
C97	77
C98	75
C99	77
C100	77
C101	80
C102	75
C103	77
C104	77

IC	PL ITEM
U1	12
U2	13
U3	5
U4	5
U5	13
U6	36
U7	25
U8	42
U9	19
U10	14
U11	17
U12	15
U13	31
U14	38
U15	10
U16	24
U17	27
U18	29
U19	7
U20	39
U21	26
U22	44
U23	37
U24	28
U25	17
U26	14
U27	8
U28	30
U29	45
U30	16
U31	18
U32	17
U33	21
U34	19
U35	17
U36	13
U37	35
U38	6
U39	11
U40	-
U41	43
U42	31
U43	36
U44	38
U45	17
U46	17
U47	14
U48	30

IND	PL ITEM
L1	54
L2	58
L3	56
L4	56
L5	60
L6	59
L7	59
L8	61
L9	57
L10	57
L11	60
L12	60
L13	-
L14	-
L15	54
L16	54
L17	56
L18	56
L19	-

VARI	PL ITEM
VVC1	49
VVC2	49
VVC3	49
VVC4	49

TSTR	PL ITEM
O1	52
O2	52
O3	47
O4	47
O5	47
O6	47
O7	47
O8	47
O9	50
O10	52
O11	52

MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
PHONE NUMBER 777-6350

DATE

09-28-84

TITLE

PWA, ESDI  
DATA

SIZE

DRAWING NUMBER

D 77763500 401

CD REV

2 F

DISTR A23-RYS I

2 F

B

A

C

D

E

F

G

H

I

J

K

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P

Q

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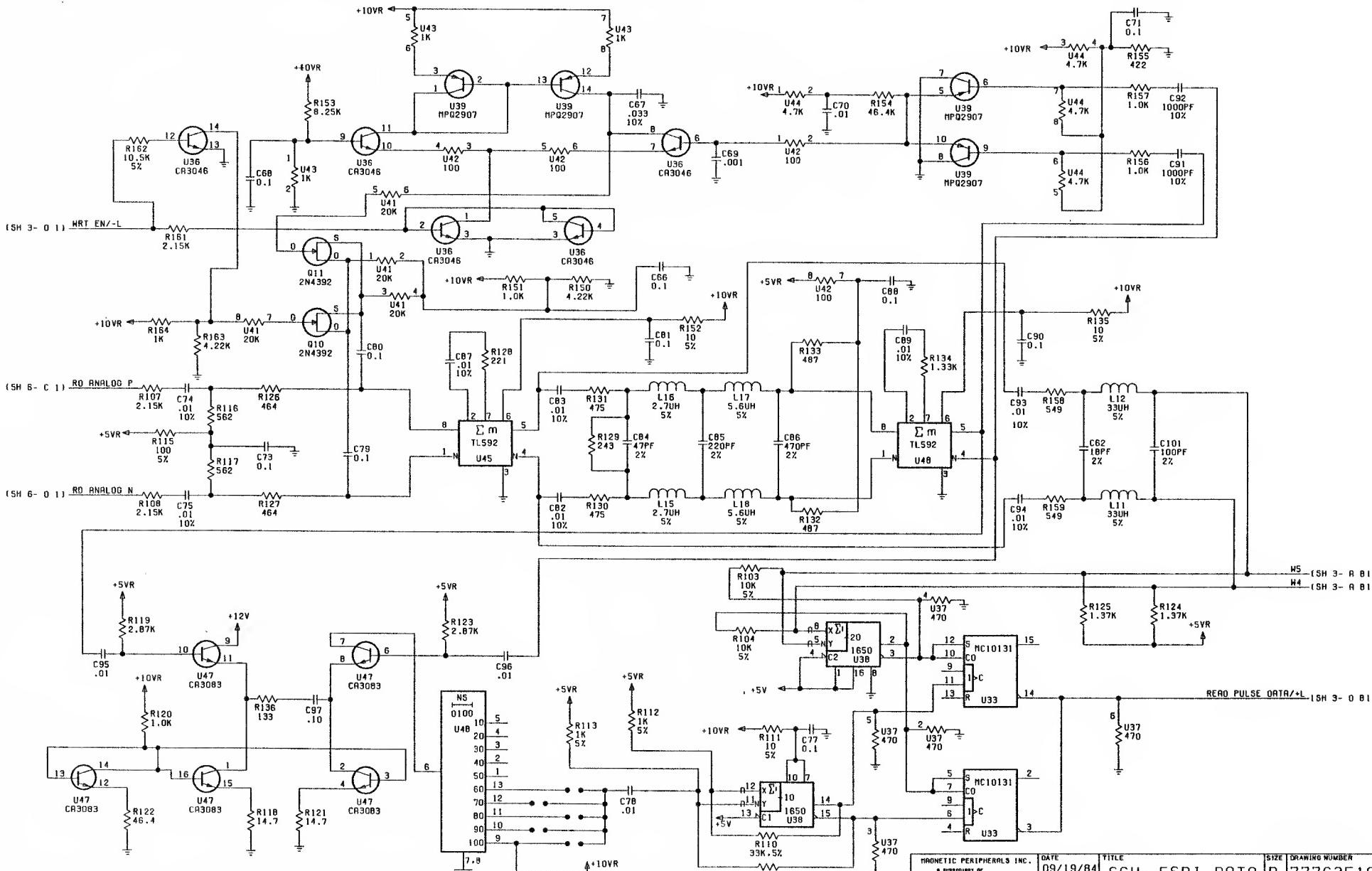
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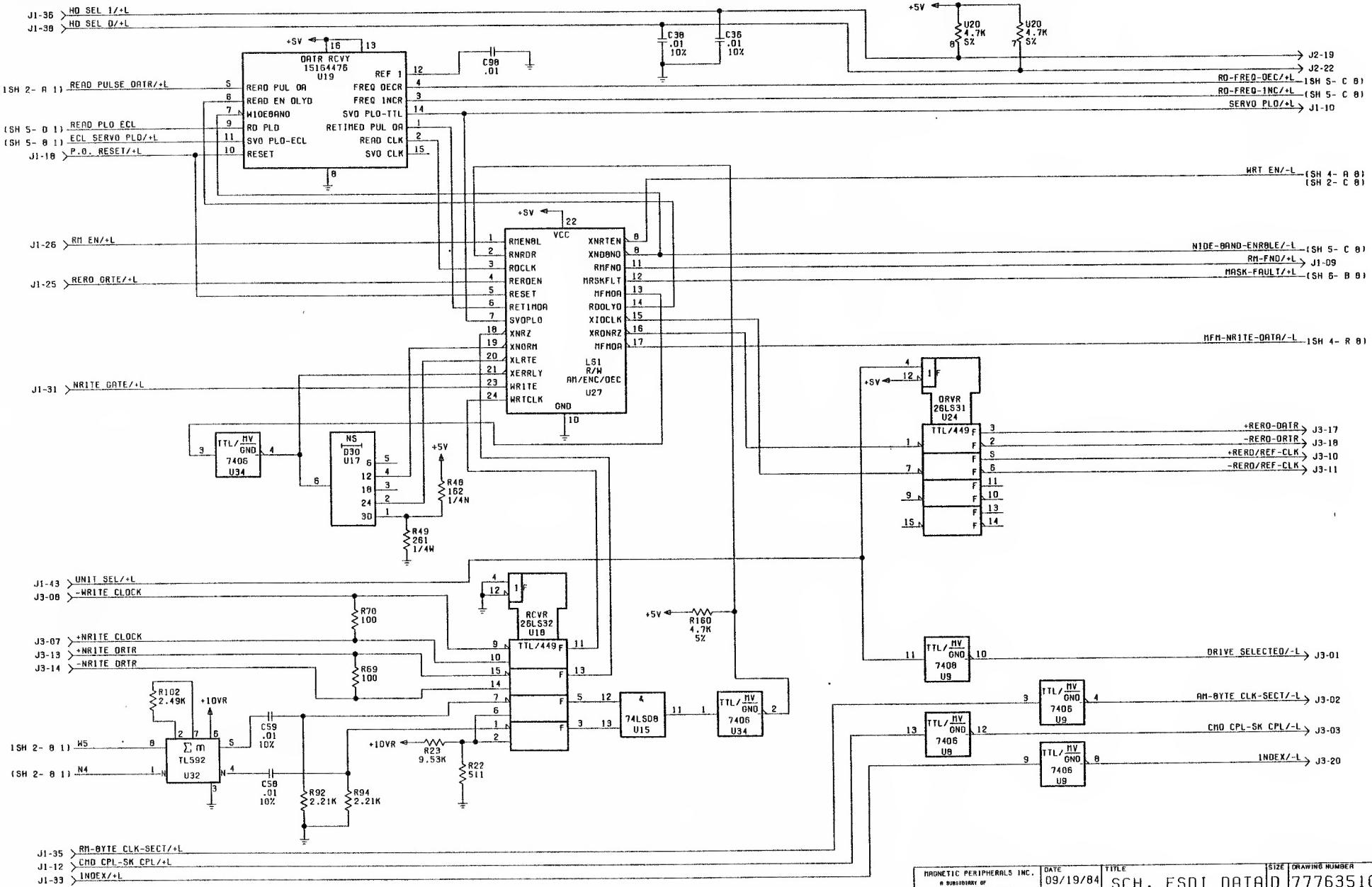
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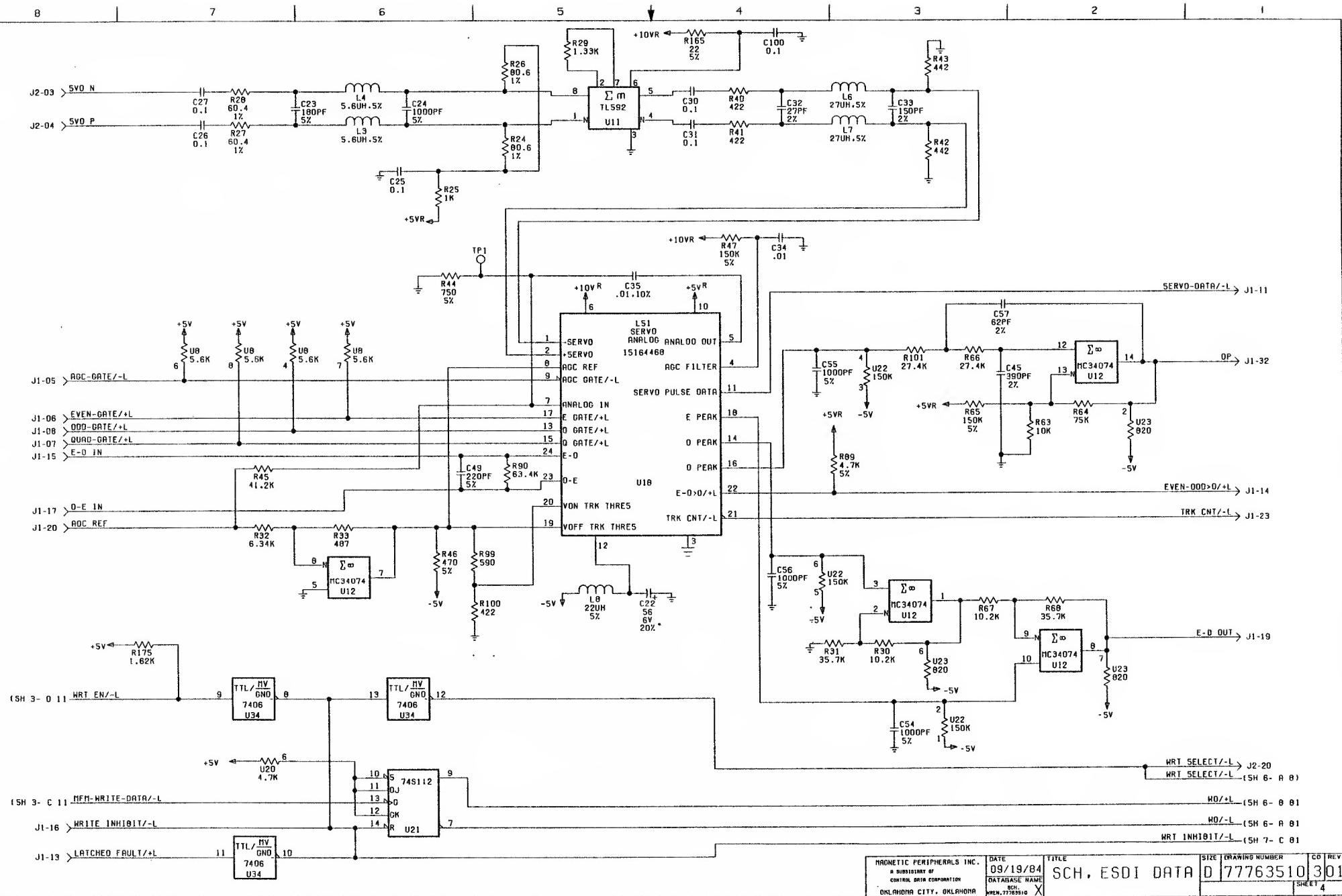
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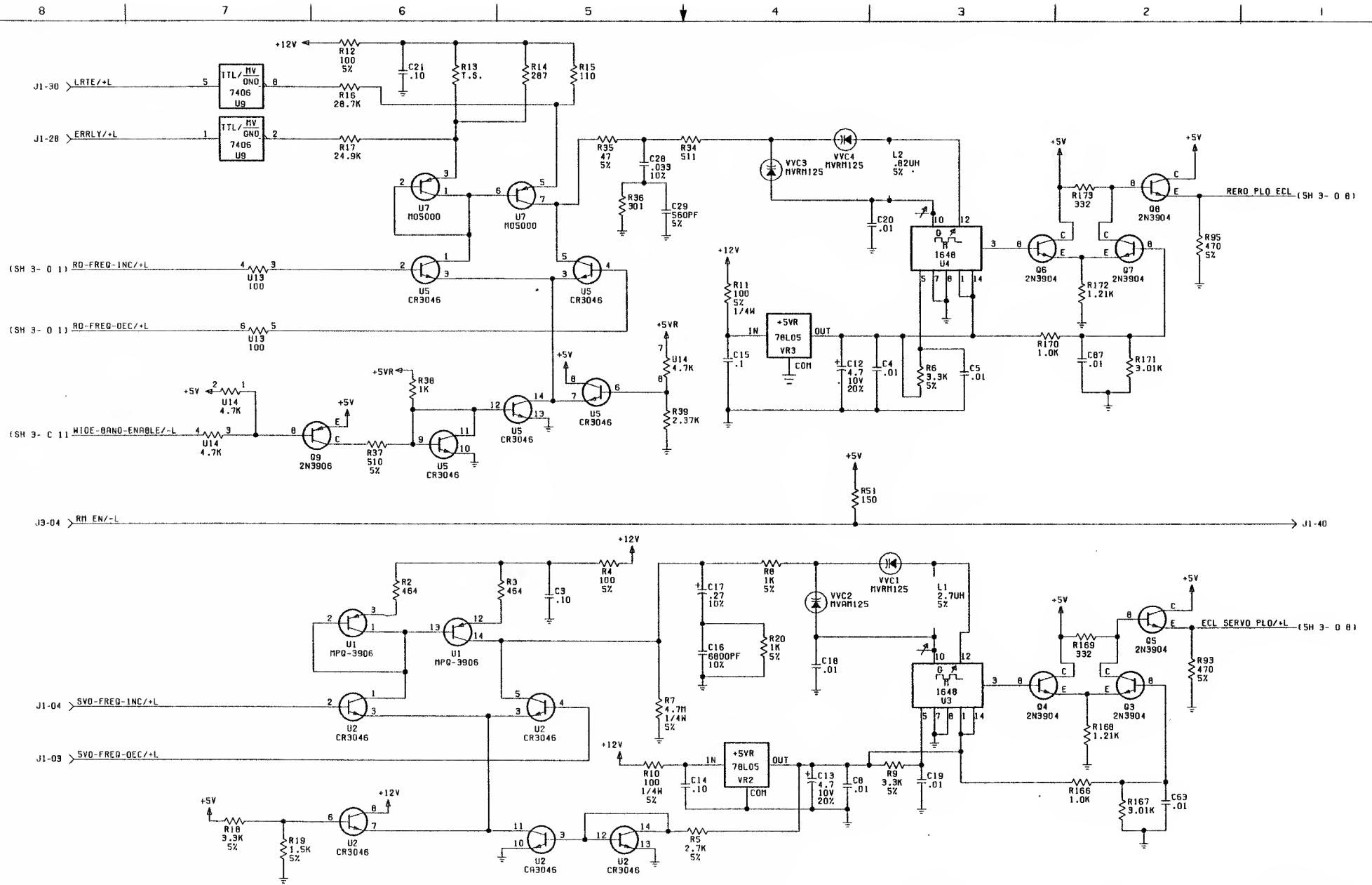




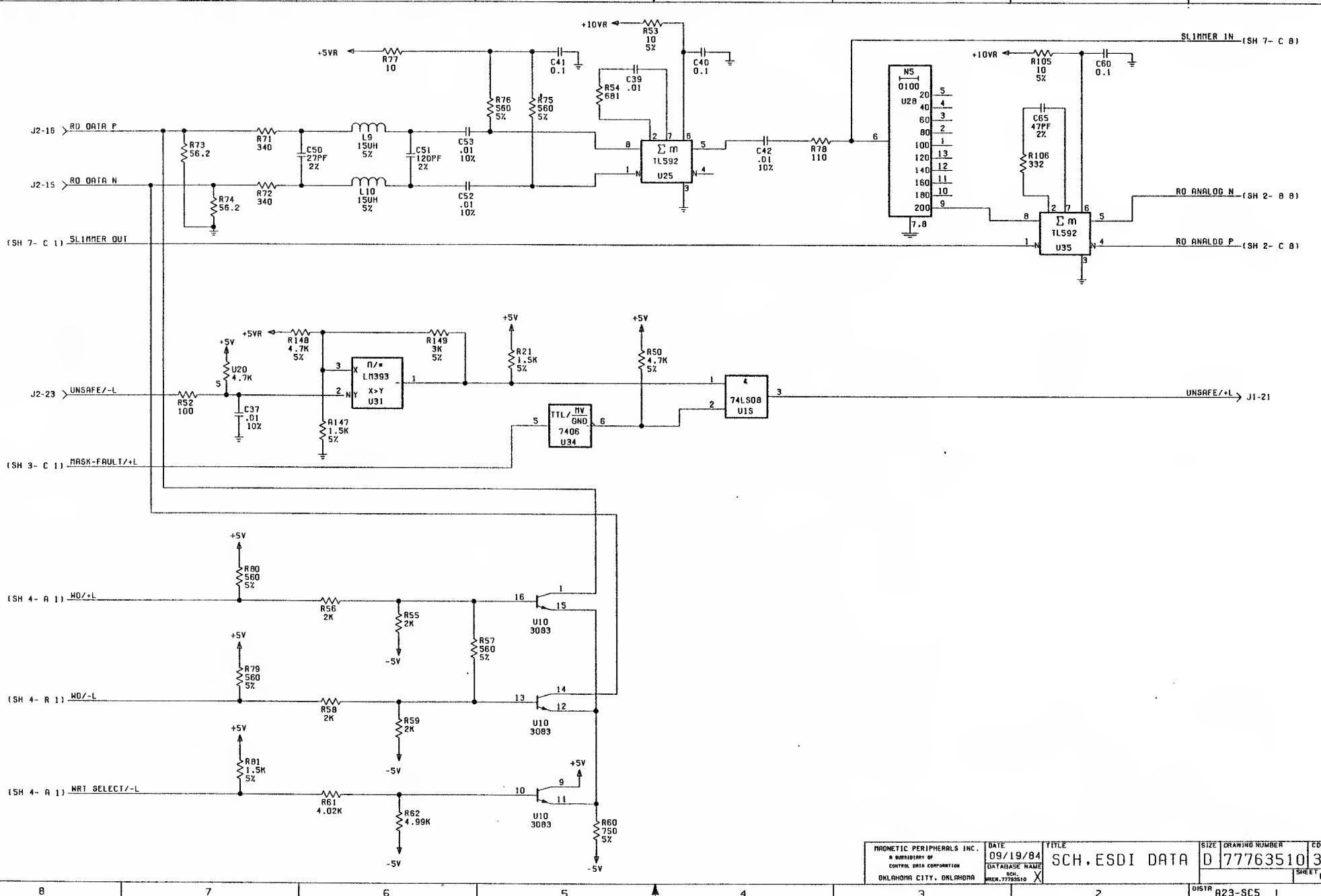
MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
DATE 09/19/84  
DRAWING NUMBER D 77763510  
TITLE SCH, ESDI DATA  
REV 301  
SEARCH NO. 773510 X  
DISTR A23-SC5 I  
SHEET 2







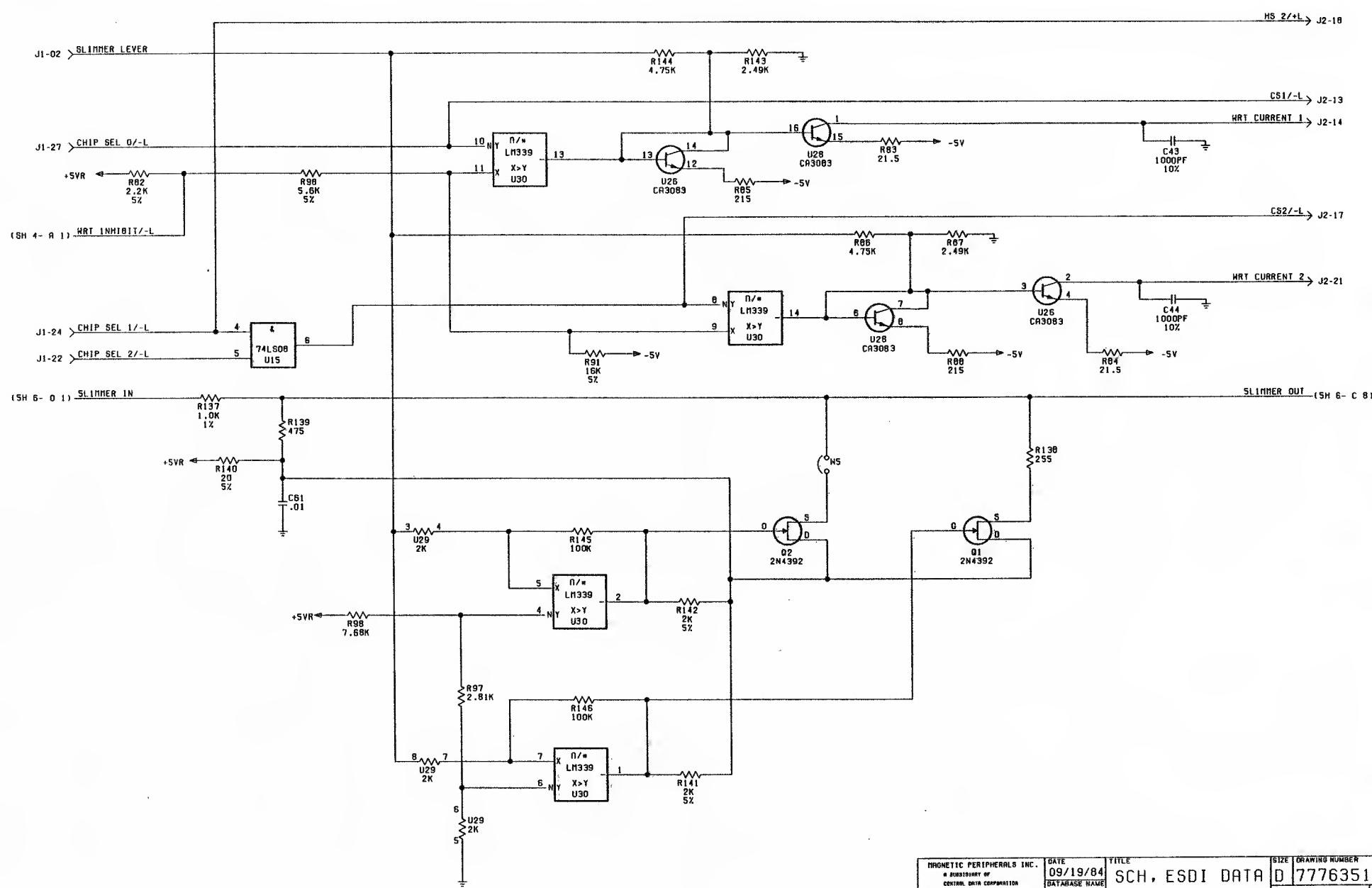
MAGNETIC PERIPHERALS INC		DATE	TITLE	SIZE	DRAWING NUMBER	CD	REV
A SUBSIDIARY OF CONTROL DATA CORPORATION		09/19/84	SCH. ESDI DATA	D	77763510	301	
OKLAHOMA CITY, OKLAHOMA		DATA SOURCE NAME	MREN, T7763510	X			

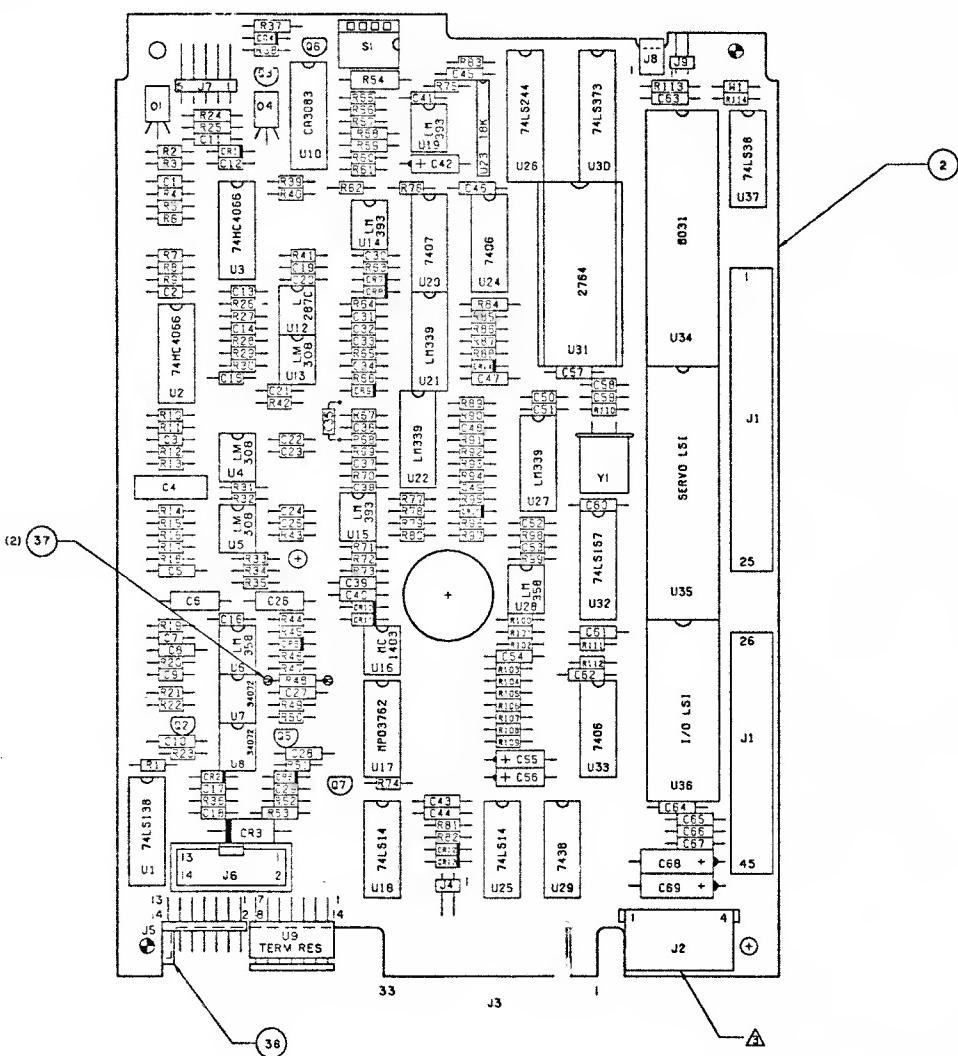


MAGNETIC PERIPHERALS INC.  
 A SUBSIDIARY OF  
 CONTROL DATA CORPORATION  
 OKLAHOMA CITY, OKLAHOMA  
 MEX-77763510 X

DATE	09/19/84	TITLE	SCH. ESDI DATA
DATA BASE NAME		SIZE	D 77763510 301
REV.		CD REV	
MEM. 77763510 X		SHEET	6

DISTR R23-SC5 1



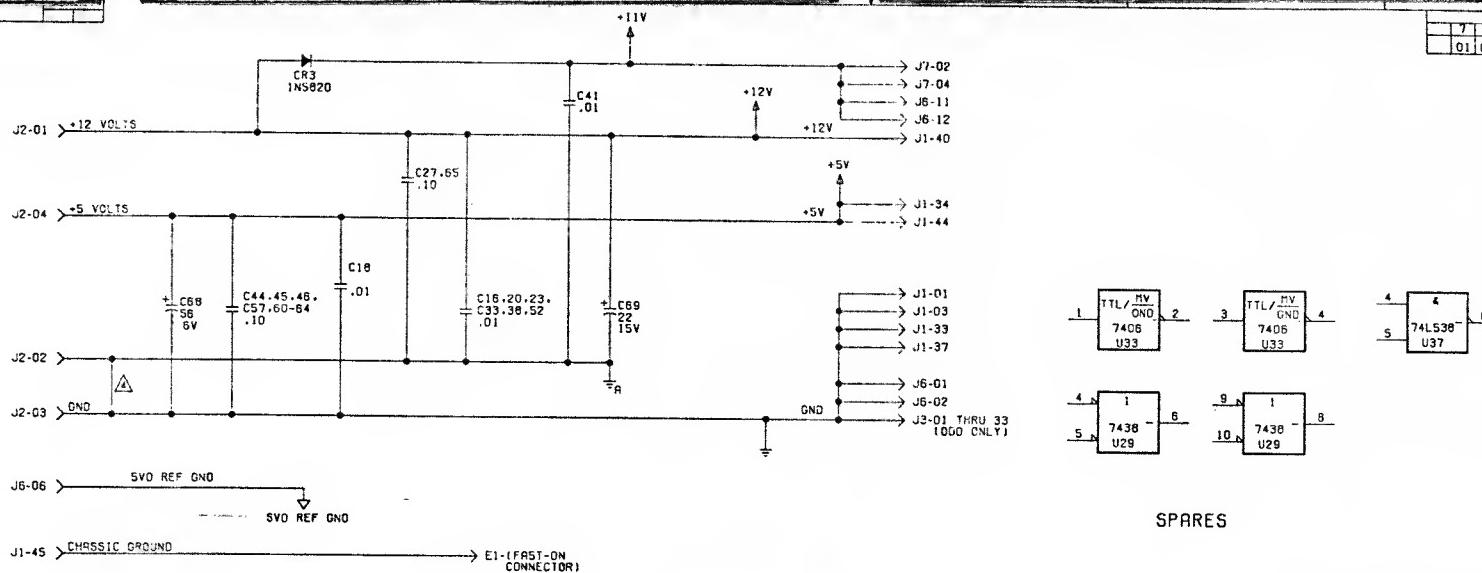


NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ASSEMBLE PER 59701127, EXCEPT PARAGRAPH 3.B.3.
  2. MAXIMUM COMPONENT HEIGHT SEE SHEET 3.
  - △ 3. MARK ASSEMBLY NO. IN APPROXIMATE LOCATION SHOWN PER 12A0999P1 ON BACK (SOLDER SIDE).
  4. FOR SCHEMATIC DIAGRAM SEE ITEM I.
  5. GENERAL WORKMANSHIP PER 1012030U.
  6. PACKAGING AND HANDLING PER COC 1.60.010.
  7. SOLID BAND ON DIODES AND VOLTAGE REGULATORS INDICATES CATHODE END.
  - △ 8. U31 (ITEM 18) AND R48 (ITEM B7) TO BE INSTALLED AT PWA TEST.
  - △ 9. J2 BOTTOM TAB PROTRUSION .085 MAXIMUM.
  - △ 10. REMOVE PIN 1 OF U4, U5 AND U13 (ITEM II).
  - △ 11. INSTALL SOCKETS (ITEMS 32 AND 148) BEFORE IC
  - △ 12. Q1 (ITEM 160) AND Q4 (ITEM 29) TO BE LAYD DOWN WITH FLAT SIDE UP.
  13. PWA CLEANLINESS PER COC 1.60.011, EXCEPT PARAGRAPH 6.1.2 TO BE 15 MICROGRAMS PER SQUARE INCH MAXIMUM.
  14. THE PWA MUST NOT BE TOUCHED IN COMPONENT OR RUN AREAS. THE PWA SHOULD BE HANDLED BY THE EDGES OR CORNERS.

X05 12-09-85 TF  
 X04 11-21-85 SRG  
 X03 11-13-85 TF  
 X02 11-12-85 TF  
 X01 10-23-85 TF

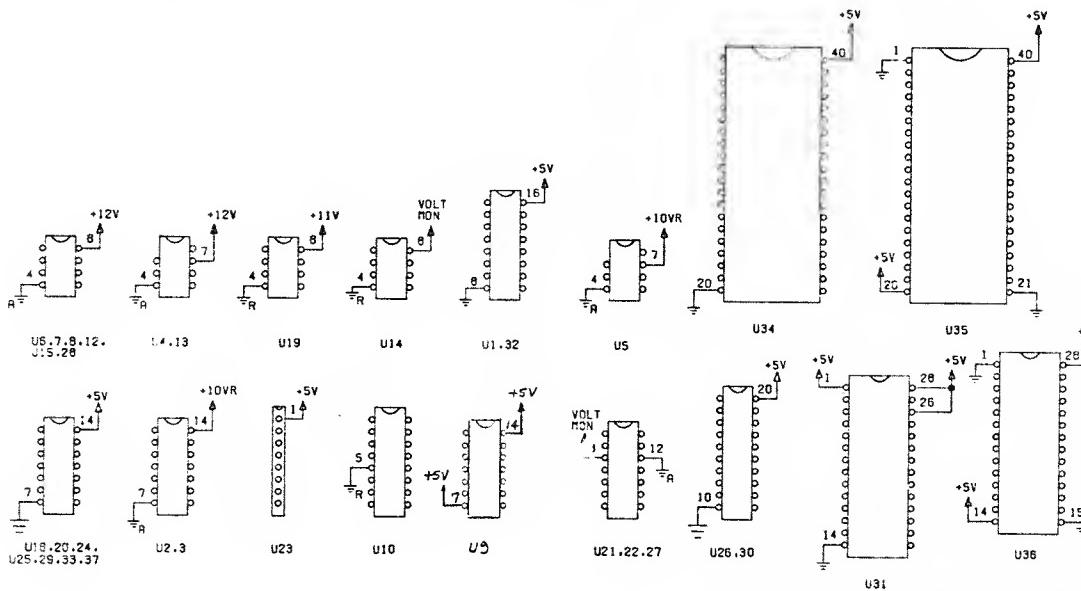
SHELF REVISION STATUS								REVISION RECORD			
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01	01	01	01	01	01	01	01	01	01	01	RELEASED



### SPARES

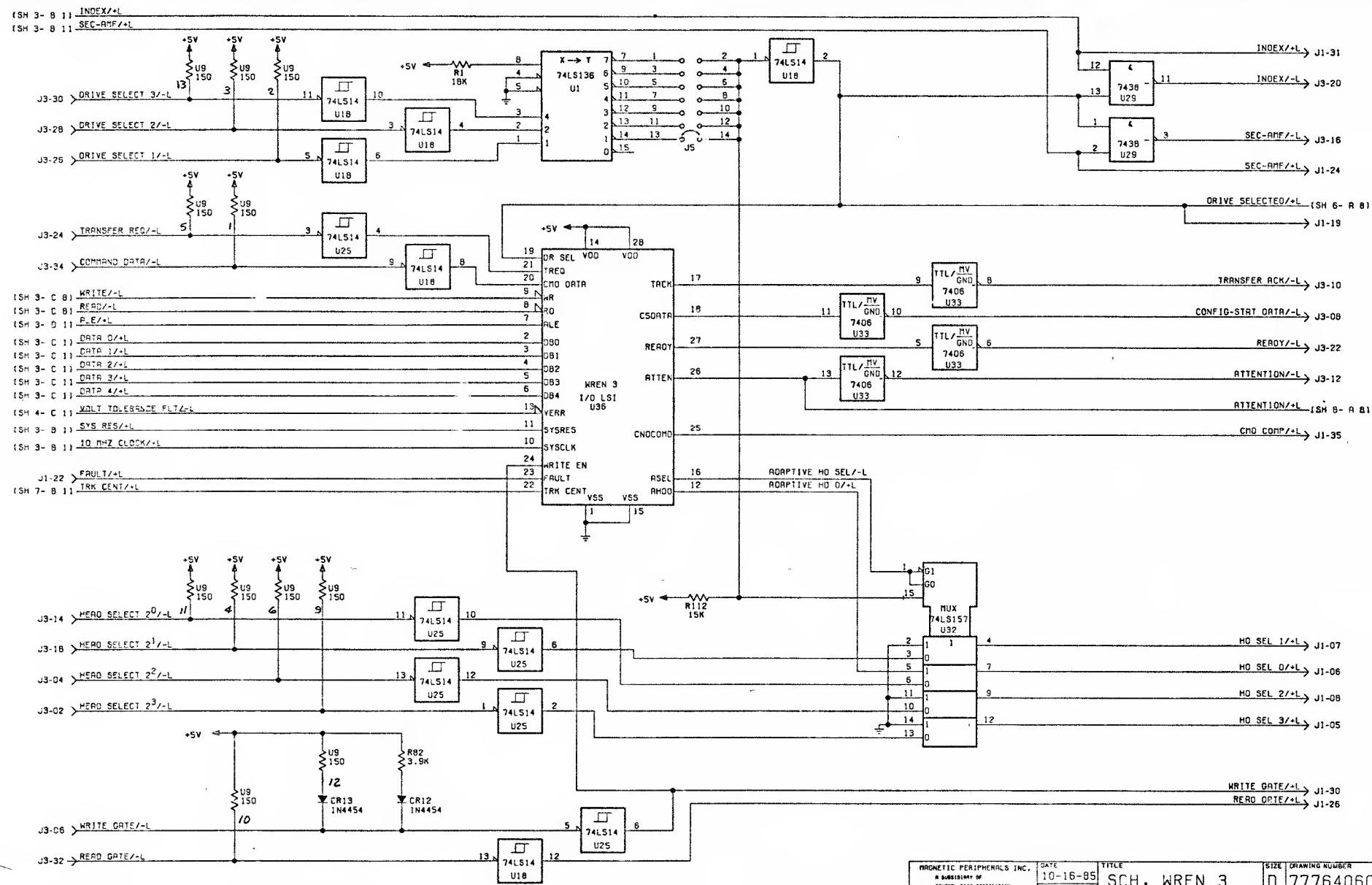
NOTES: (UNLESS OTHERWISE SPECIFIED)

1. CAPACITOR VALUES ARE IN MICROFARADS. +80-20%, 50V EXCEPT ELECTROLYTIC ARE  $\pm 20\%$
2. RESISTOR VALUES ARE IN OHMS. 1/8W,  $\pm 5\%$
3. RESISTORS 1W AND GREATER ARE FLAME PR DOF.
4.  $\triangle$  DENOTES ANALOG GROUND.  
LOGIC GROUND AND ANALOG GROUND ARE TIED TOGETHER AT THE CONNECTOR.
5. GUARD REQUIREMENTS  
  - $\triangle$  GUARD WITH +2.5 VREF
  - $\triangle$  GUARD WITH SVO REF GND
  - $\triangle$  GUARD WITH +5V REF
6. R48 AND R103 GND TO BE CLOSE TO U13-3(GND).



REV X05 12-09-85 TR  
 REV X04 11-21-85 SR6  
 REV X03 11-13-85 TR  
 REV X02 11/12/85 TR  
 REV X01 10/30/85 TR

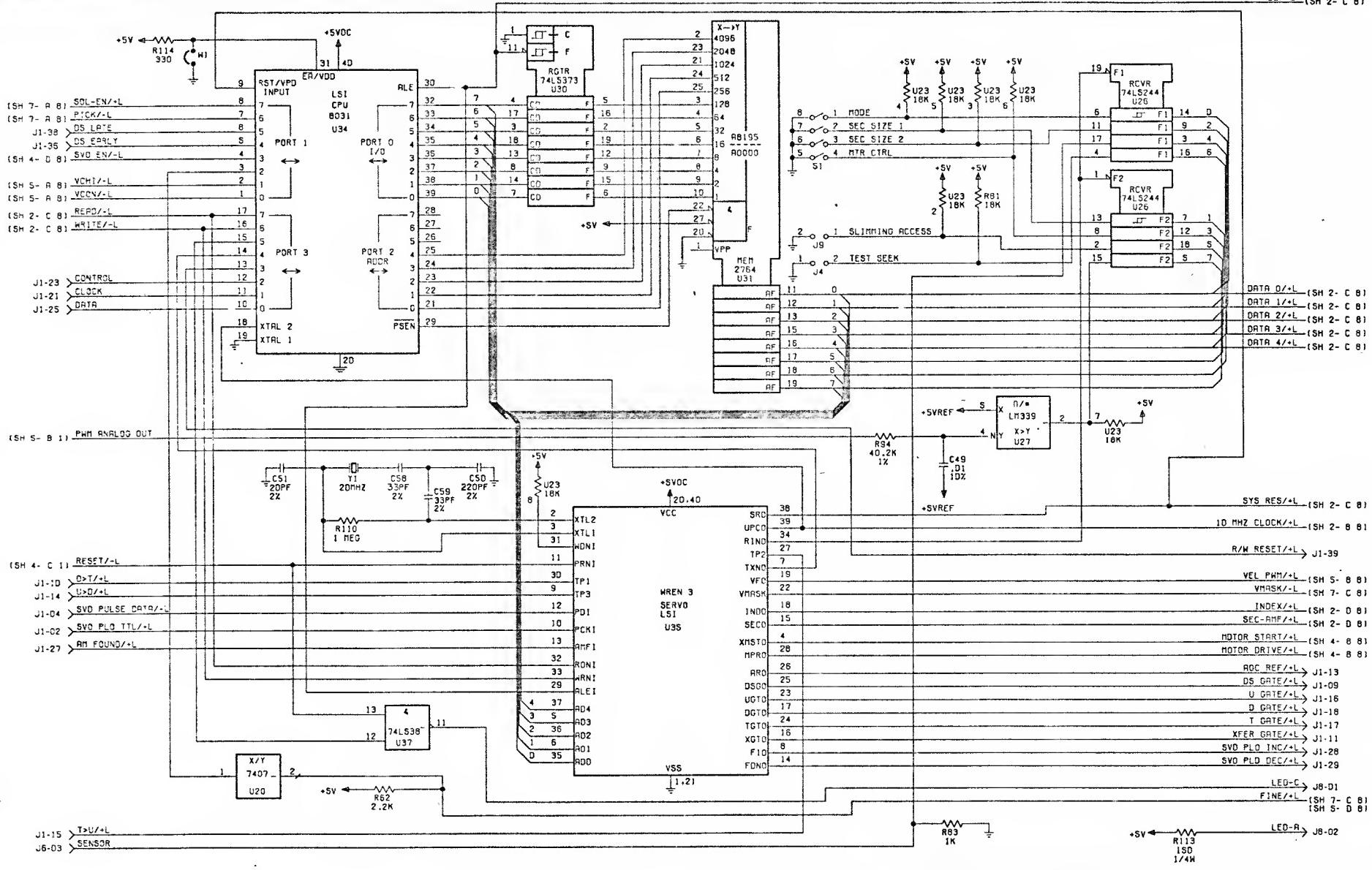
MATERIAL	AMERICAN PERIPHERALS INC.	OWN	COOP FORM	10-16-85	TITLE
FINISH	45° ANGLED	CH-101	10-16-85		
3-PLATE 2-PIECE	ANODE	ENR			
DO NOT SCALE DRAWING	WFCI				
WREN 3-94166	DATA RATE	SCH	D 77764060	801	CD REV
	SCN. WREN 3-94166				
	X	2	SCALE NONE	SHEET 1 OF 7	
			DISTR A24-S05		



MAGNETIC PERIPHERALS  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION

-85 TITLE  
NAME SCH, WREN  
SERVO

SIZE	DRAWING NUMBER	CD	REV
D	77764060	8	01
SHEET 2			

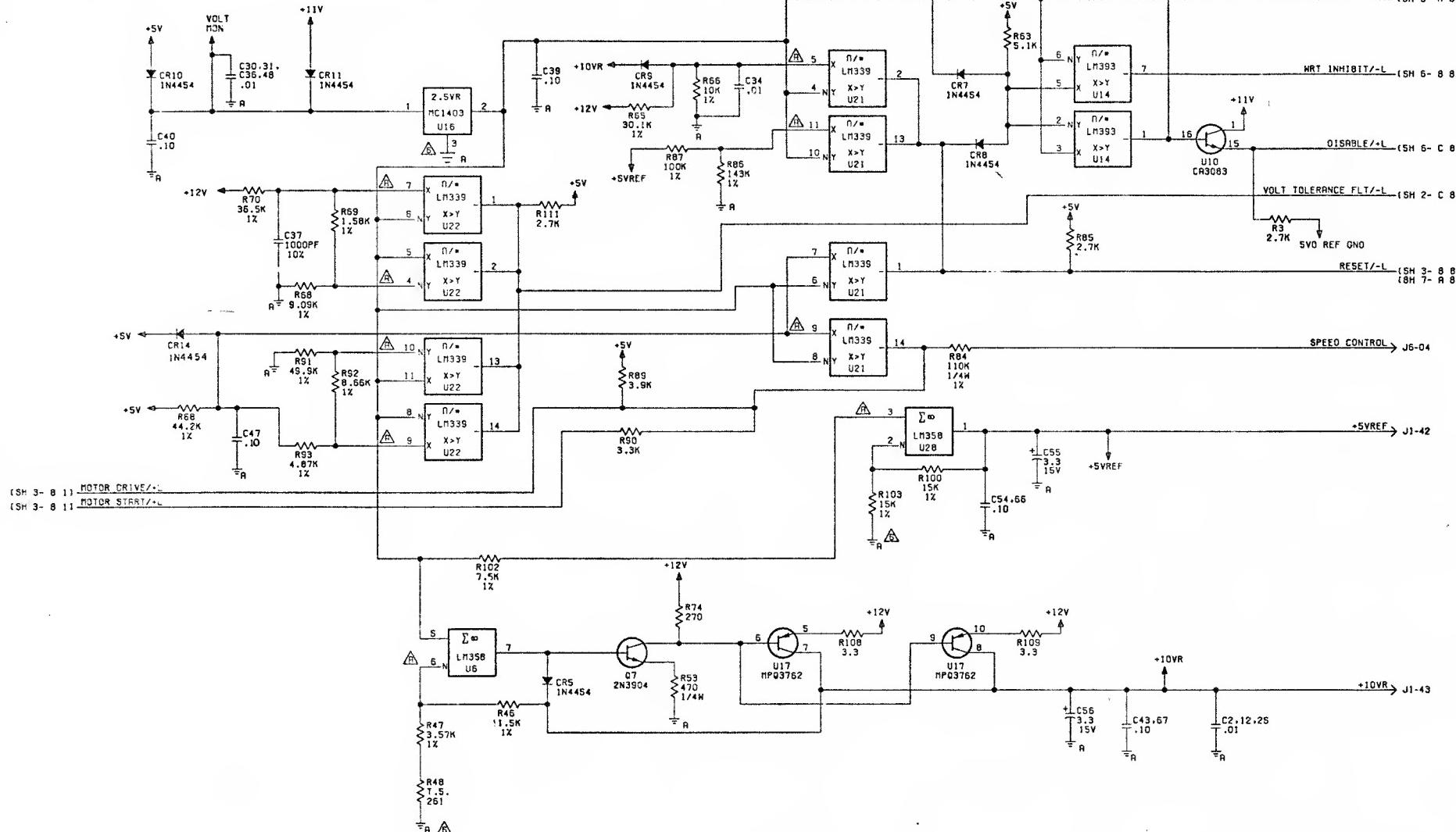


MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF COMPUTER DATA CORPORATION	DATE 10-16-85	TITLE SCH, WREN SERVO
OKLAHOMA CITY, OKLAHOMA	DATABASE NAME SCH WREN WREN-77764080	X

(SH 3- 0 8) - SVO EN/-L

+5V → 10  
9 74LS38 U37+11V → R61  
6.8K

+2.5V REF (SH 6- R 8)



MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA  
WREN 77764060 X

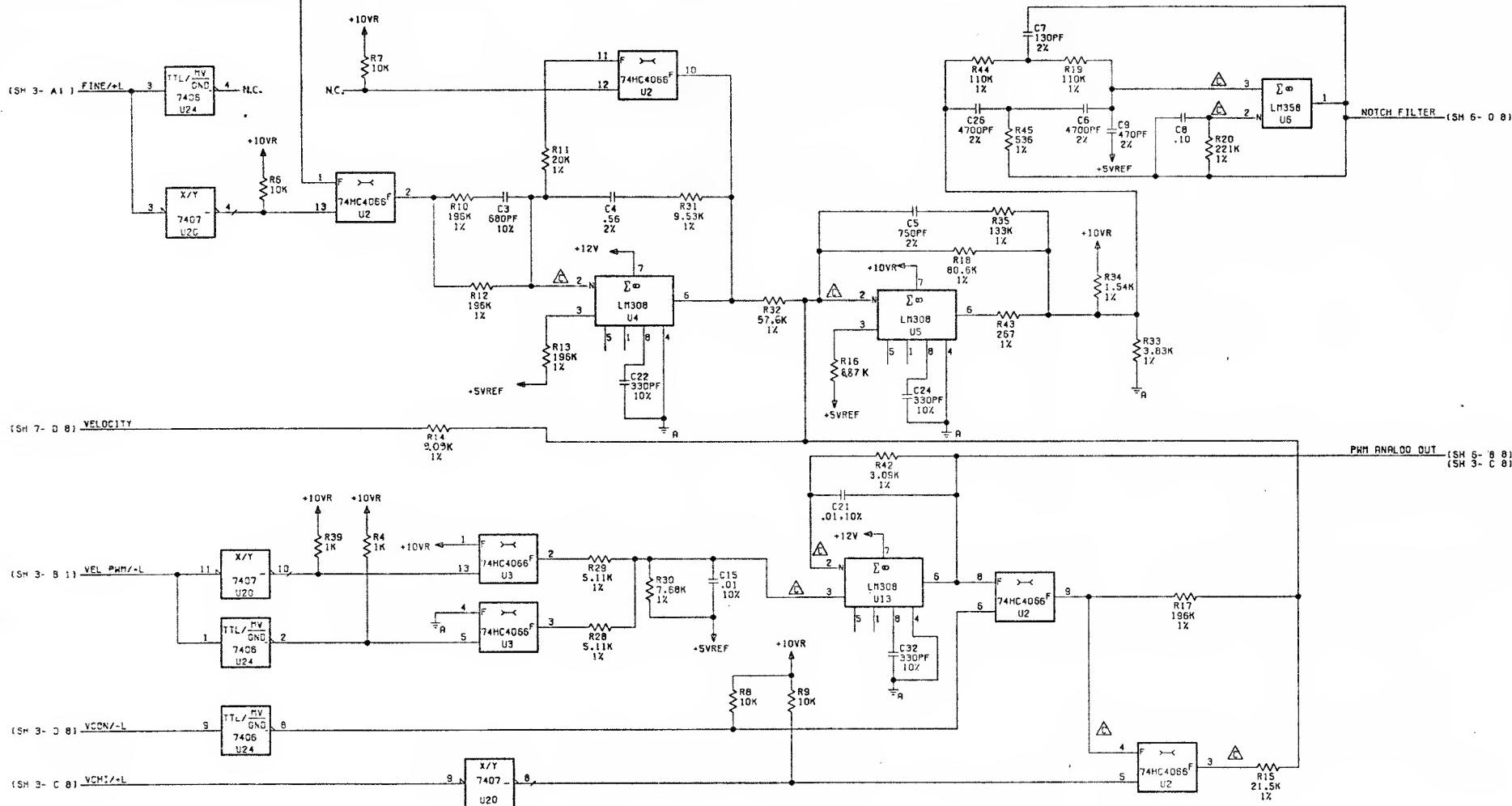
DATE 10-16-85  
TITLE SCH, WREN 3  
DATABASE NAME WREN 77764060 X  
SERVO

SIZE D 77764060 801  
REV SHEET 4

DISTR A24-SC5 1

J1-12 &gt; SPE

SPE (SH 7-0 8)

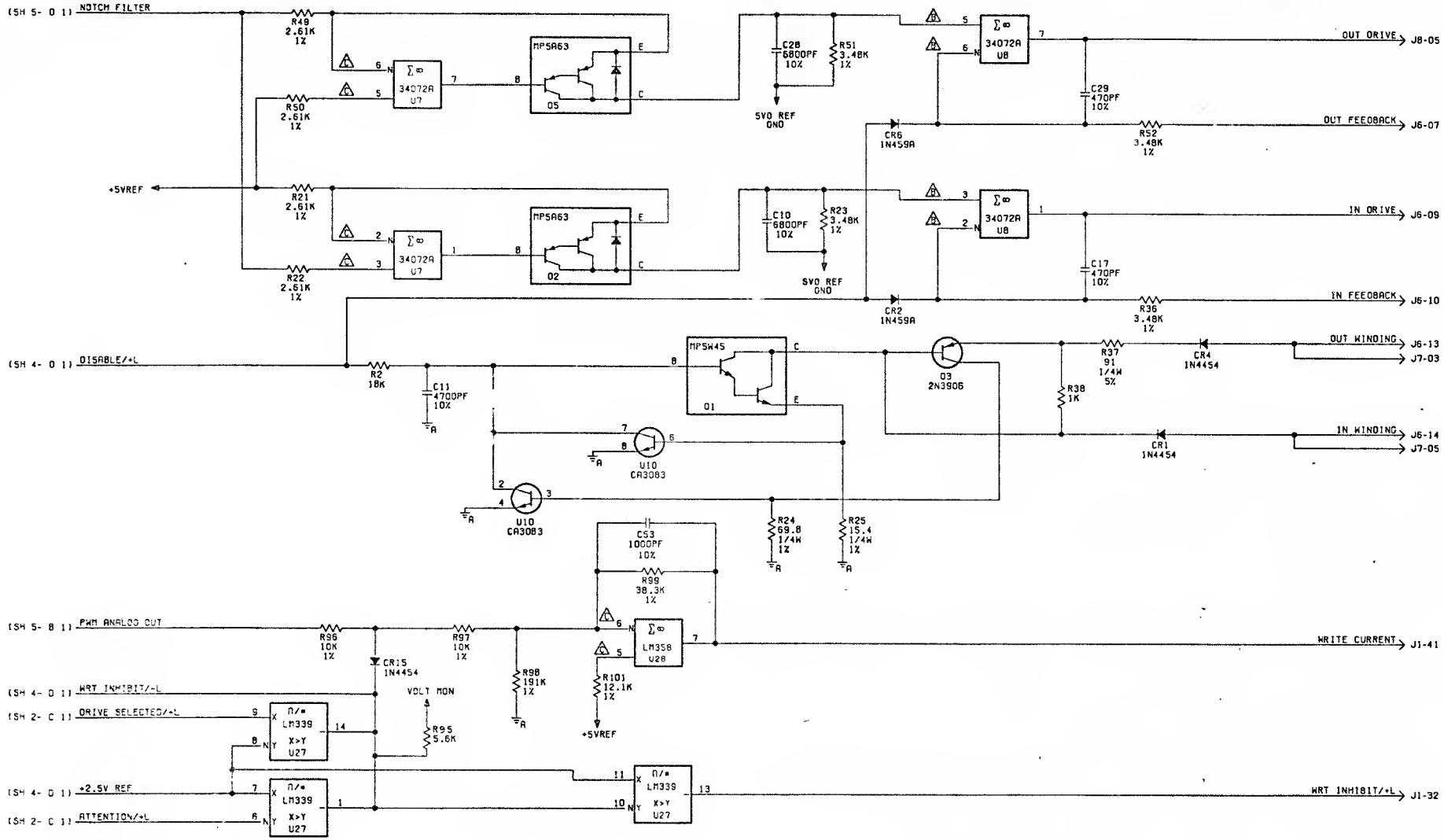


REV X05 12-03-85 *TM*  
REV X03 11-13-85 *TM*

MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA		DATE 10-16-85	TITLE SCH, WREN 3 SERVO	SIZE D 77764060 801	CD REV
DATA BASE NAME WREN3		DATA BASED X			

SHEETS 5

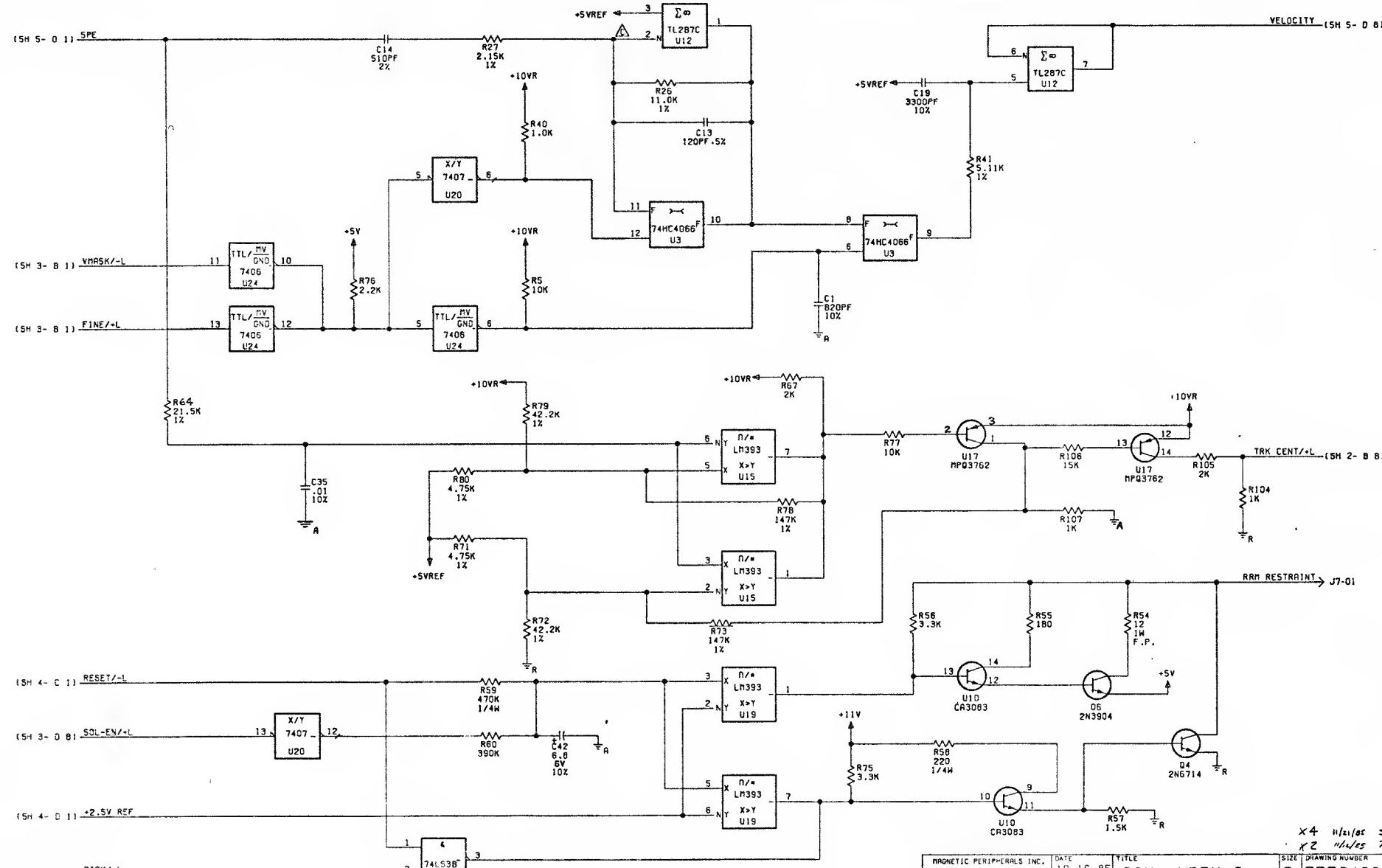
DISTR A24-SC5 1



MAGNETIC PERIPHERALS INC.		DATE	TITLE		SIZE	DRAWING NUMBER	CD REV
M	SUBSIDIARY OF CONTROL DATA CORPORATION	10-16-85	SCH, WREN 3 SERVO		D	77764050	801
OKLAHOMA CITY, OKLAHOMA		SCM	WREN 3 SERVO				SHEET 6

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DISTR A24-SC5 1

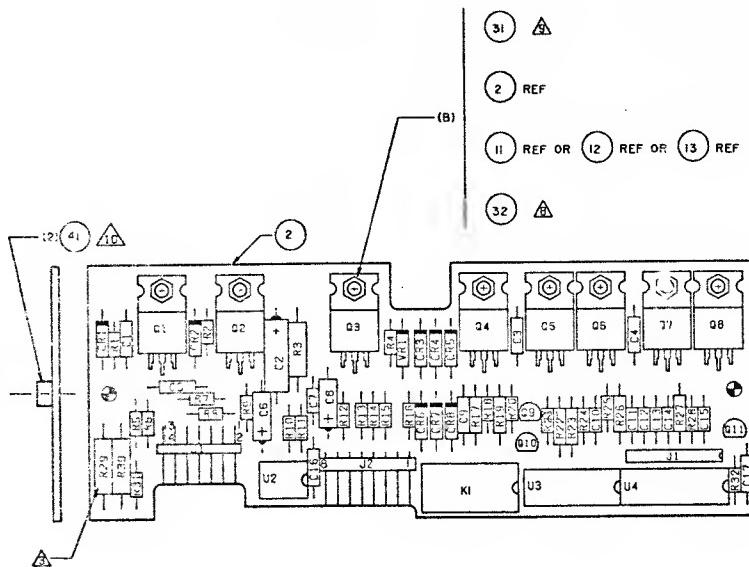


MAGNETIC PERIPHERALS INC.  
A SUBSIDIARY OF  
CONTROL DATA CORPORATION  
OKLAHOMA CITY, OKLAHOMA

NC.	DATE	TE
	10-16-85	
	DATABASE NAME	
MR	SCH.	X
	HRN. 77764080	

TLE  
SCH. WREN  
SERVO

X4 11/21/85 SRG  
 X2 11/21/85 FF



RES	PL ITEM
R1	28
R2	28
R3	25
R4	38
R5	28
R6	39
R7	28
R8	38
R9	34
R10	39
R11	29
R12	28
R13	38
R14	38
R15	26
R16	39
R17	30
R18	28
R19	30
R20	33
R21	28
R22	30
R23	30
R24	28
R25	28
R26	30
R27	30
R28	28
R29	24
R30	24
R31	39
R32	38

CAP	PL ITEM
C1	20
C2	19
C3	21
C4	21
C5	20
C6	43
C7	35
C8	40
C9	21
C10	42
C11	42
C12	42
C13	42
C14	42
C15	42
C16	21
C17	21

TSTR	PL ITEM
O1	11
O2	11
O3	13
O4	12
O5	13
O6	12
O7	13
O8	12
O9	10
O10	14
O11	14

DIO	PL ITEM
CR1	15
CR2	15
CR3	16
CR4	16
CR5	16
CR6	16
CR7	16
CR8	16

IC	PL ITEM
U1	9
U2	6
U3	7
U4	S

VOLT REG	PL ITEM
VR1	36

CONN	PL ITEM
J1	22
J2	23

RLY

PL ITEM

K1

37

## NOTES: (UNLESS OTHERWISE SPECIFIED)

1. ASSEMBLE PER 5970127, EXCEPT PARAGRAPH 3.6.3.
2. MAXIMUM COMPONENT HEIGHT 0.25, EXCEPT K1 IS 0.40.
3. MARK ASSEMBLY NO. BACK SIDE IN APPROXIMATE LOCATION SHOWN PER 12A1099P1.
4. FOR SCHEMATIC DIAGRAM, SEE ITEM I.
5. GENERAL WORKMANSHIP PER 10120300.
6. PACKAGING AND HANDLING PER COC I.60.010.
7. SOLID BAND ON DIODES AND VOLTAGE REGULATORS INDICATES CATHODE END.
8. TORQUE 3.5 - 4.0 IN/LBS BEFORE SOLDERING, AFTER INITIAL TIGHTENING, THE TORQUE MAY RELAX TO A MINIMUM OF 2.0 IN/LBS.
9. STUD (ITEM 3) PROTRUSION ON BACK (SOLDER SIDE) 0.03 MAXIMUM AFTER FLOW SOLDER.
10. INSTALL STANOFF (ITEM 4) ON BACK (SOLDER SIDE) AFTER FLOW SOLDER.

MATERIAL	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES 3 PLACE 2 PLACE 4 FINISH	MAGNETIC PERIPHERALS INC. 1000 N. 10TH STREET OKLAHOMA CITY, OKLAHOMA 405/231-1200 DO NOT SCALE DRAWING FBI/DOJ HIREN III	OWN: SUSIE EVANS ID: 18-80 TITLE: PWA, CHKD: ENGR: MFG: DATA BASE: FBI/DOJ HIREN III X 2 DISTR: R24-RYS 1 PNB/HIREN.17774050	SIZE: DRAWING NUMBER: D 77774070 CO: 5 REV: 01
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8  
CO STATUS REVISION

7

6

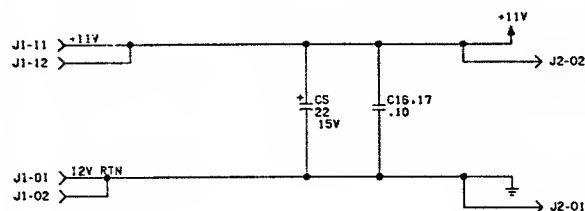
5

4

3

2

1

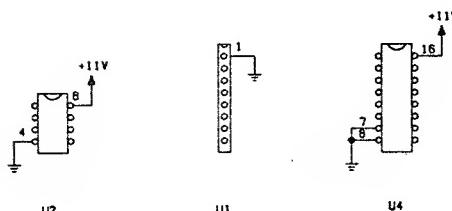


D

C

B

A 0 7774080-4



NOTES: (UNLESS OTHERWISE SPECIFIED)

1. CAPACITOR VALUES ARE IN MICROFARADS, 50V, +80-20%, EXCEPT ELECTROLYTIC ARE  $\pm 20\%$
2. RESISTOR PACK (U1) IS  $\pm 2\%$
3. RESISTOR VALUES ARE IN OHMS, 1%W,  $\pm 5\%$
4. PHASE AND SENSOR SEQUENCE IS A,B,C  
SENSOR DECODE SEQUENCE IS 5,1,3,2,6,4 FOR  
PHASE DECODES OF AB,AC,BC,BA,CA,CB.
- △ 5. THE SOURCE OF SVO REF GND IS AT THE JUNCTION  
OF R27 AND R28 WHERE THEY ARE TIED TO GROUND

MATERIAL	UNLESS OTHERWISE SPECIFIED	MANUFACTURER	DRW. NO.	10-24-85	TITLE	SIZE	DRAWING NUMBER	CO	REV
FINISH	UNLESS OTHERWISE SPECIFIED	MONETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	CHND				0 7774080	4	01
TOLERANCES 3-PLACE 2-PLACE ANGLES		ENGR							
DO NOT SCALE DRAWING		TYPE							
		WREN III							
		MFG							
		DATE							
		SCH.WREN							

8

7

6

5

4

3

2

1

X-01 10/11/85

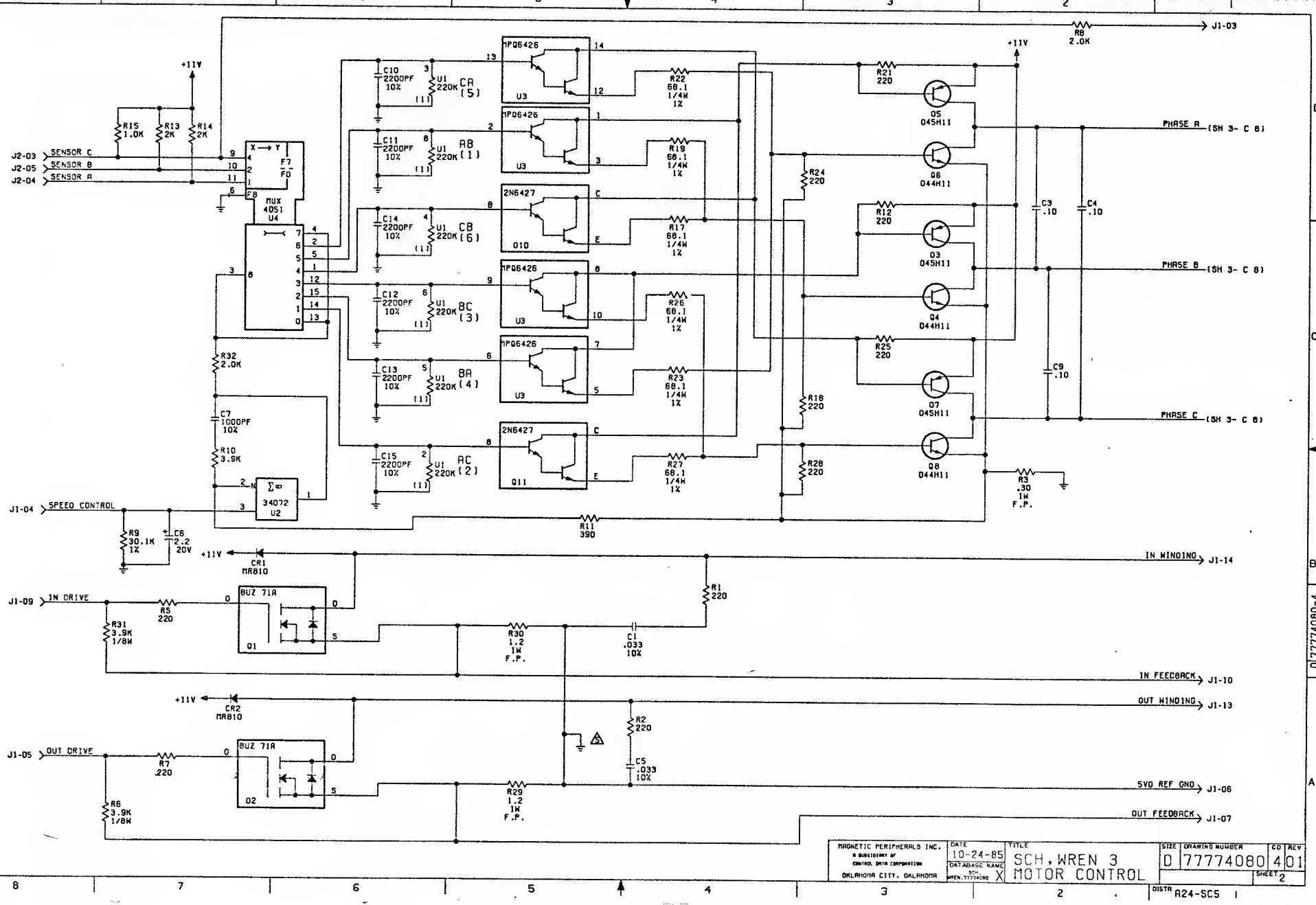
DATA BASE SCH.WREN,7774080 X

2

DISTR R24-SC5 I

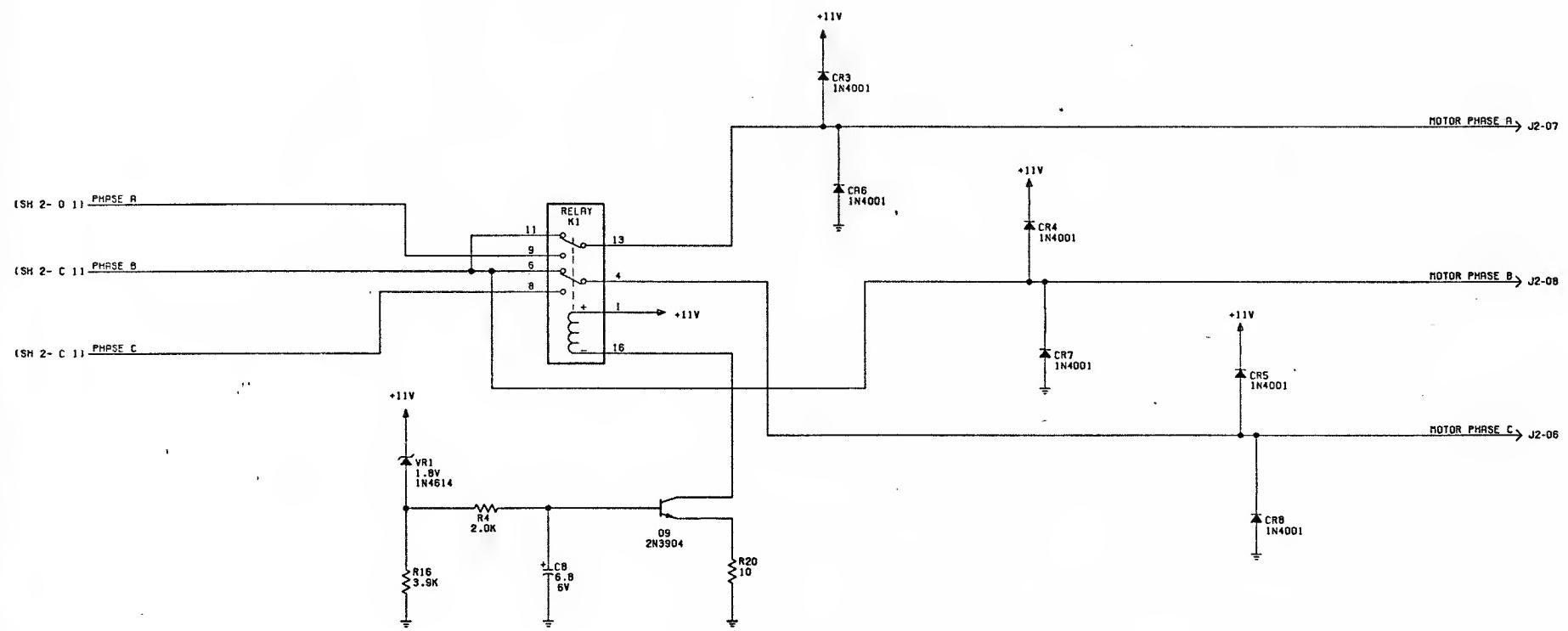
A

1 of 3



MAGNETIC PERIPHERALS INC.		DATE 10-24-85	TITLE SCH, WREN 3	SIZE D 77774080	CD 401
A SUBSIDIARY OF CONTROL DATA CORPORATION		DATA BASE NAME SCH- MEN-77774080	X MOTOR CONTROL		
OKLAHOMA CITY, OKLAHOMA					

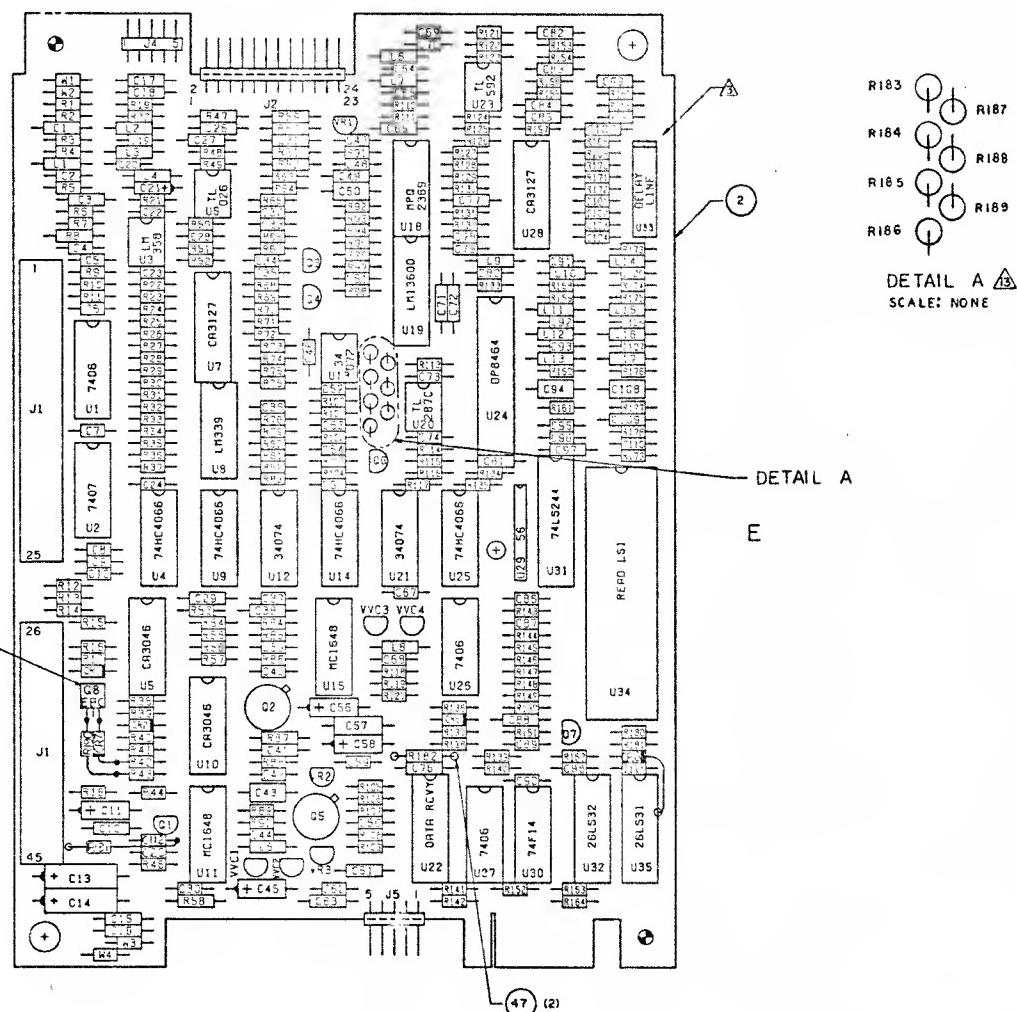
SHEET 2

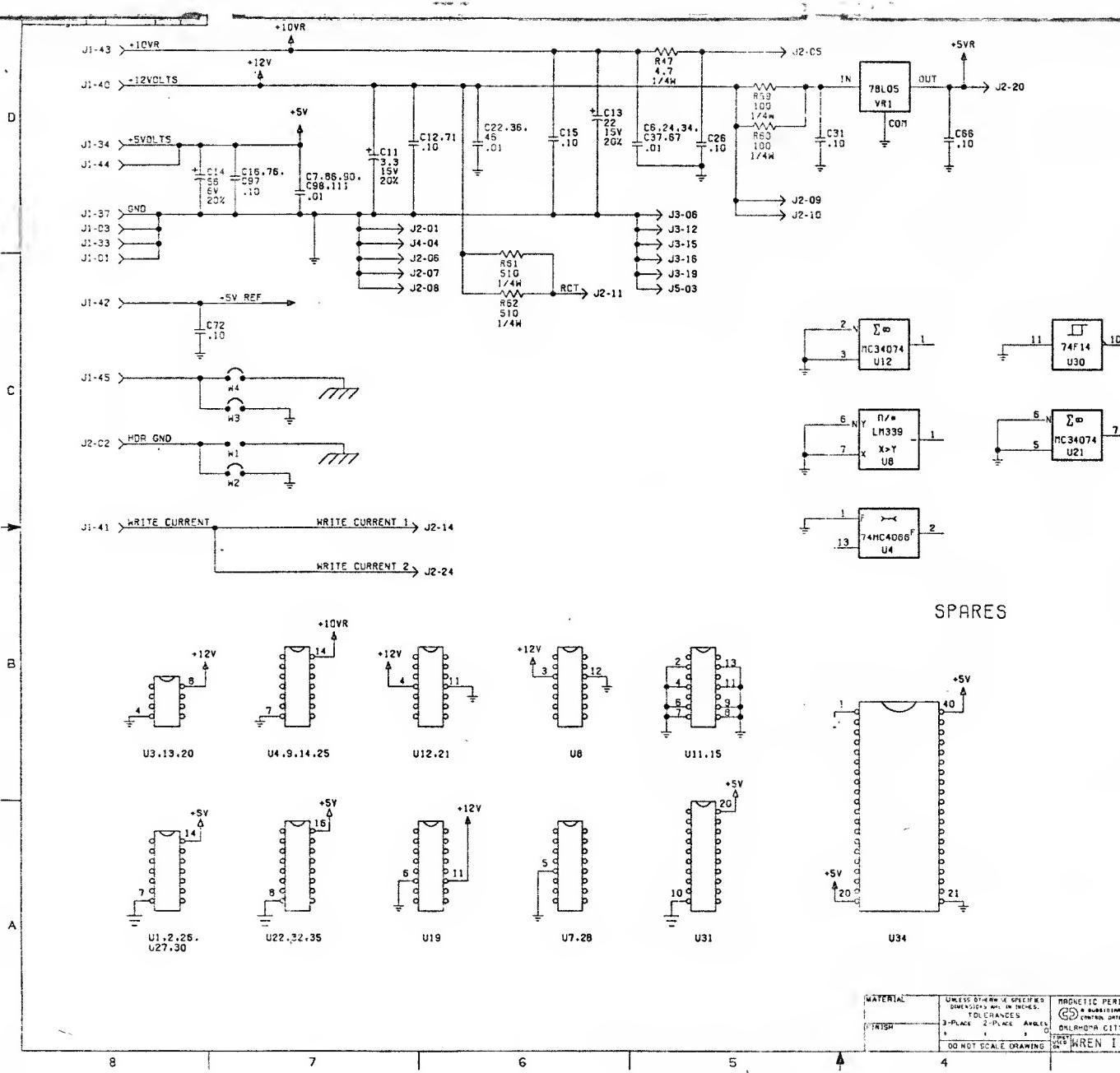


D 77774080-4

MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA		DATE 10-24-85	TITLE SCH. WREN 3 X MOTOR CONTROL	SIZE D	DRAWING NUMBER 77774080 401	CD REV
DATA BASE NAME WREN.2774080						SHEET 3 F

8 7 6 5 4 3 2 1 DISTR R24-SC5 1

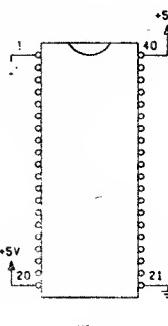




NOTES: (UNLESS OTHERWISE SPECIFIED)

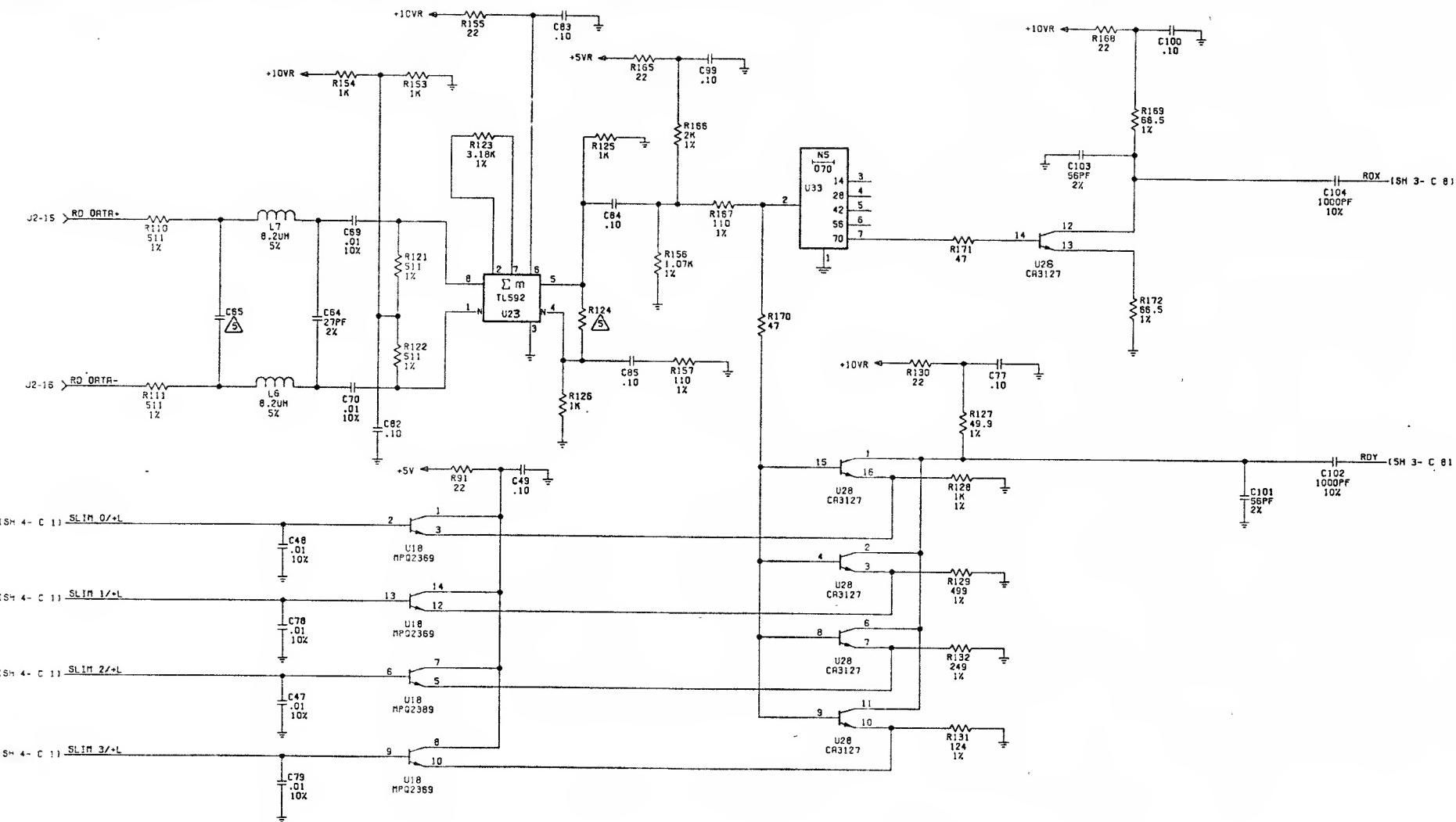
1. CAPACITOR VALUES ARE IN MICROFARADS. +80-20%, 50V EXCEPT ELECTROLYTIC ARE +20%.
  2. RESISTOR VALUES ARE IN OHMS, 1/8W, ±5%.
  3. RESISTORS 1W AND GREATER ARE FLAME PROOF.
  4. GUARDING REQUIREMENTS.
    -  GUARD WITH GROUND
    -  GUARD WITH +5V REF
    -  GUARD WITH VOLTAGE DIVIDER
  5. R45, R124, C65 NOT USED

## SPARES

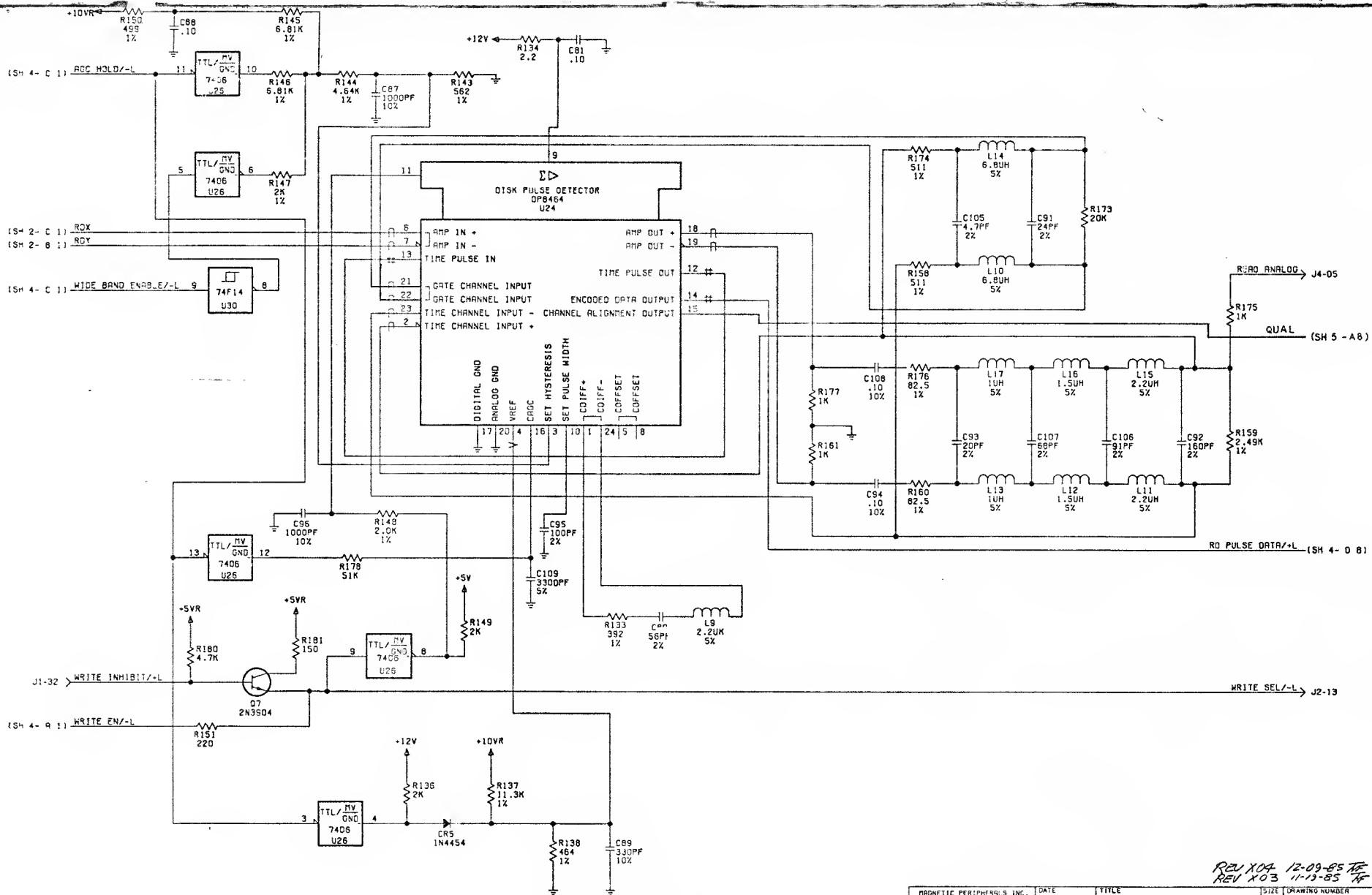


REV X04 12-09-85 *TE*  
REV X03 11-19-85 *TE*  
REV X02 11/12/85 *TE*  
REV X01 11/5/85 *TE*

MATERIAL TRISH	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES 3-PLACE 2-PLACE ANGLES	MAGNETIC PERIPHERALS INC. C-50 OKLAHOMA CITY, OKLAHOMA	DRAWN NO. CHAD ENGR.	10-30-BS 4-545 MFG.	TITLE SCH. WREN 3 DATA	SIZE D	DRAWING NUMBER 77764110	CD 101	REV.
DO NOT SCALE DRAWING		WREN III-94165			SCALE NONE	SHEET 1	of 9		
4	3		X	2	DIST A24-SC5 1				



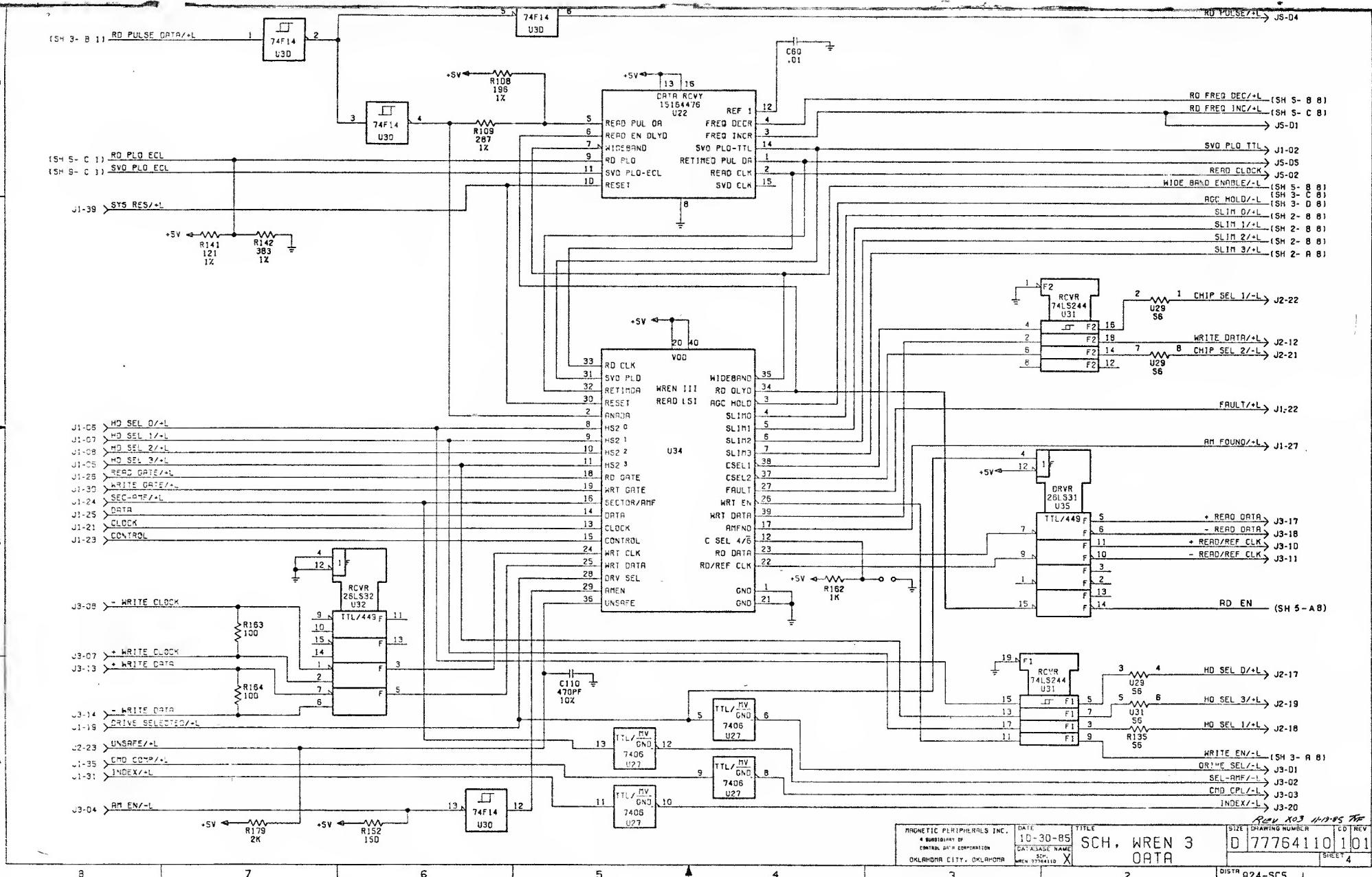
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OKLAHOMA CITY, OKLAHOMA						SHEET 2

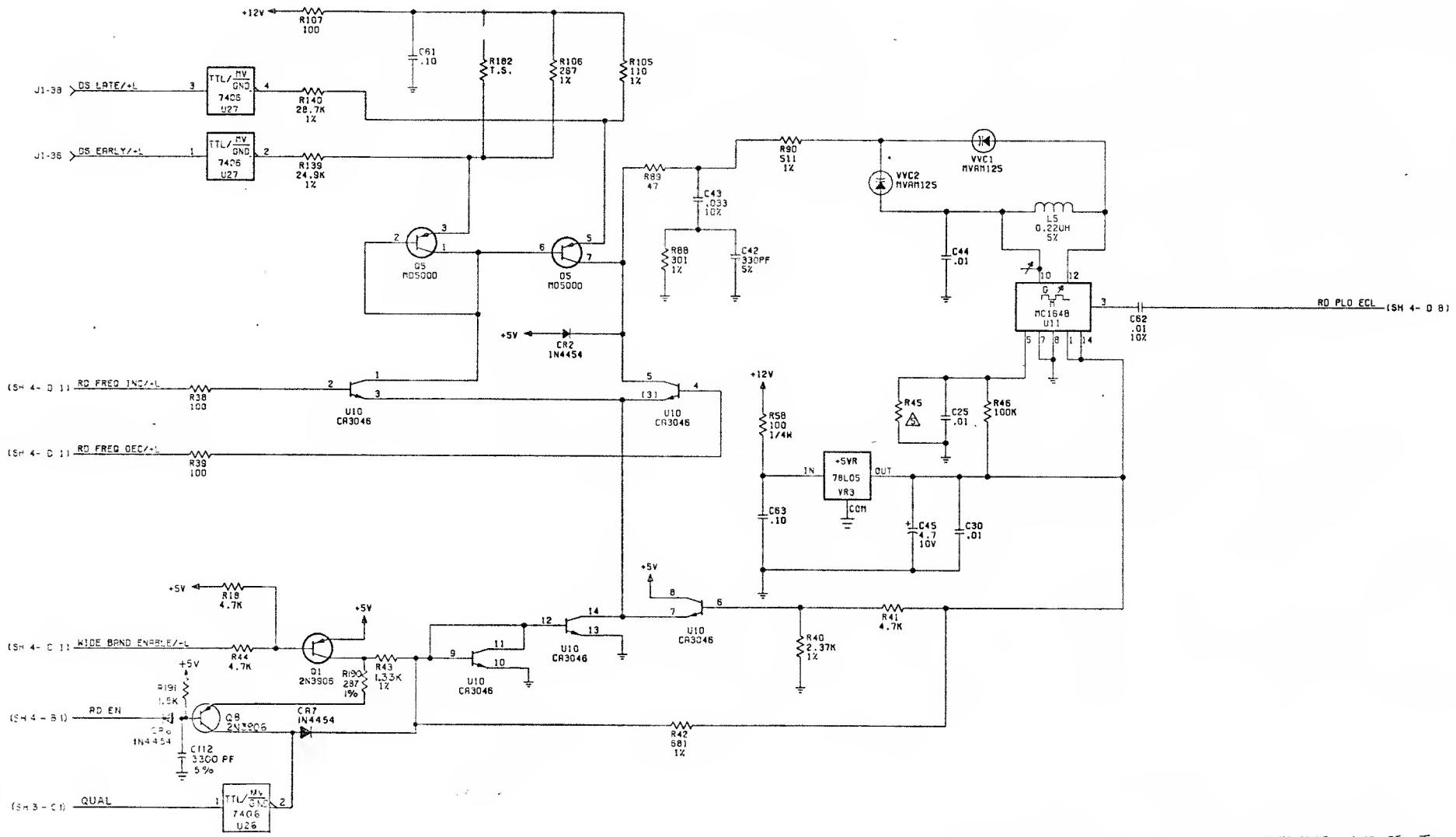


REV X04 12-09-85  
REV X03 11-19-85

MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DATE 10-30-85	TITLE SCH, WREN 3 DATA	SIZE D 77764110 101	CO REV X
WREN-11104110	DATA BASE NAME SCH, WREN 3 DATA	SHEET 3		

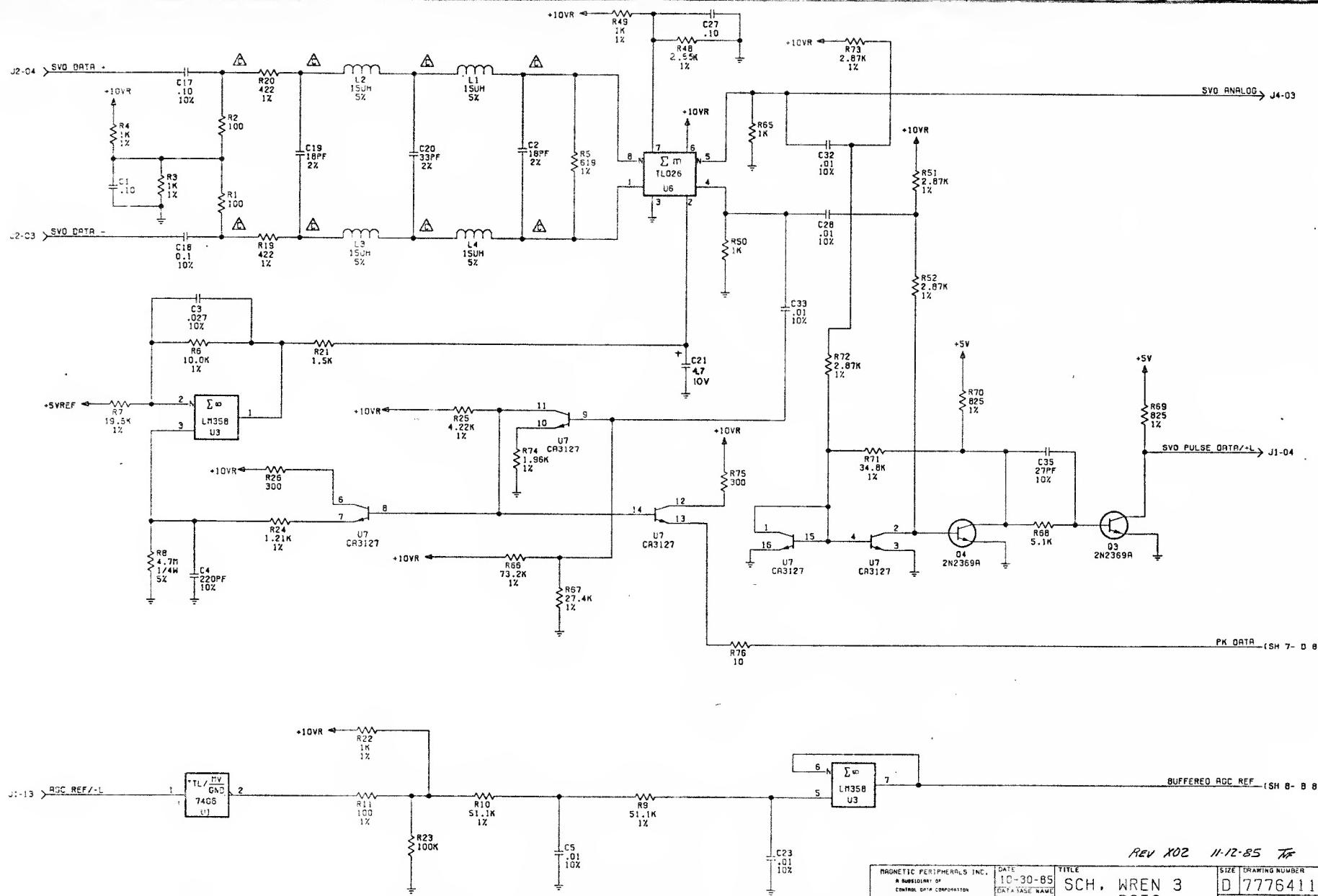
8 7 6 5 4 3 2 1 DIST R24-5C5 I



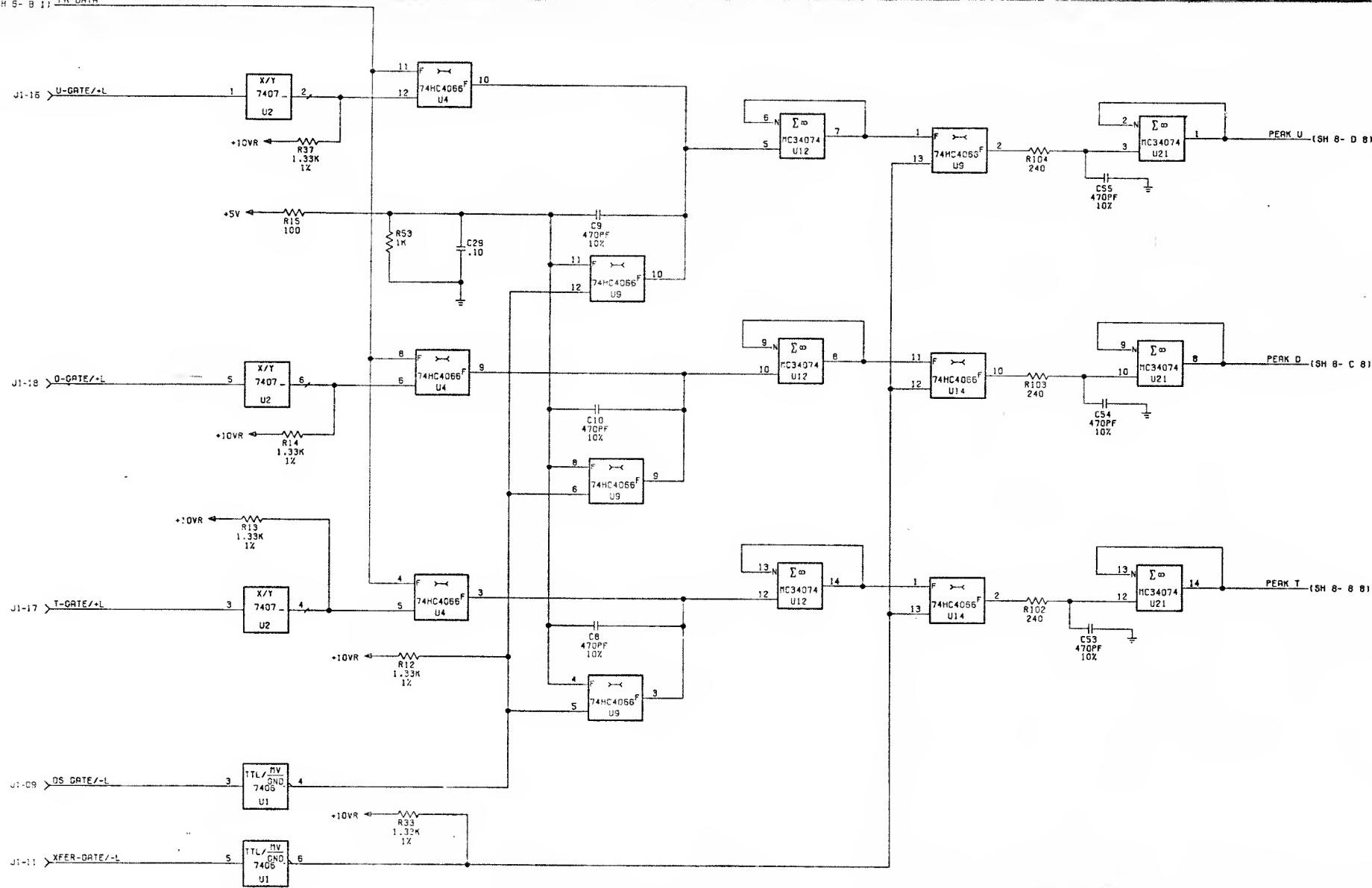


MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DATE 10-30-85	TITLE SCH, WREN 3 DATA	SIZE D 77764110	CD REV 101
DATA SHEET NAME SCH, WREN 3 DATA	REV 5			

DISTR A24-SC5 I

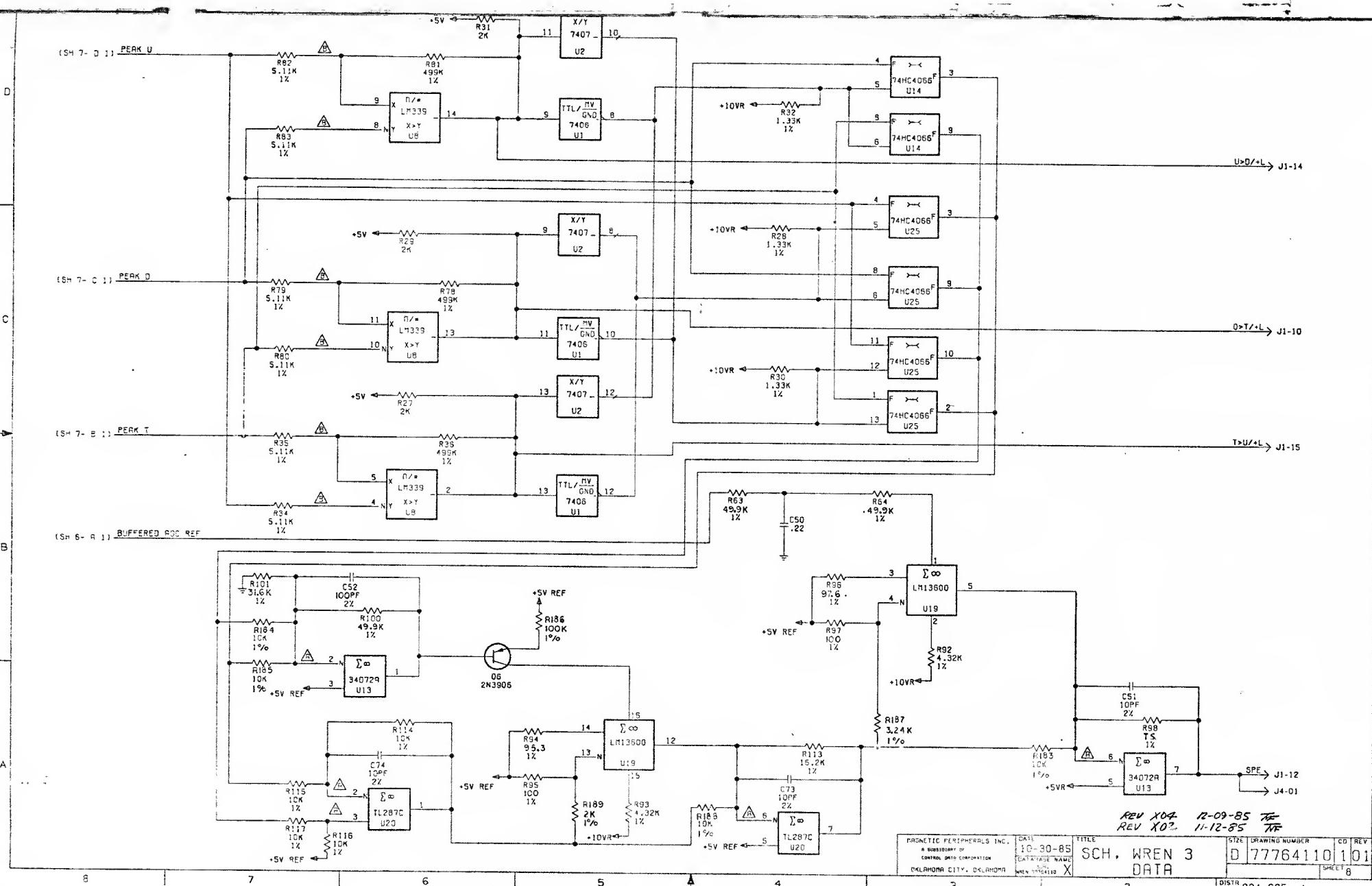


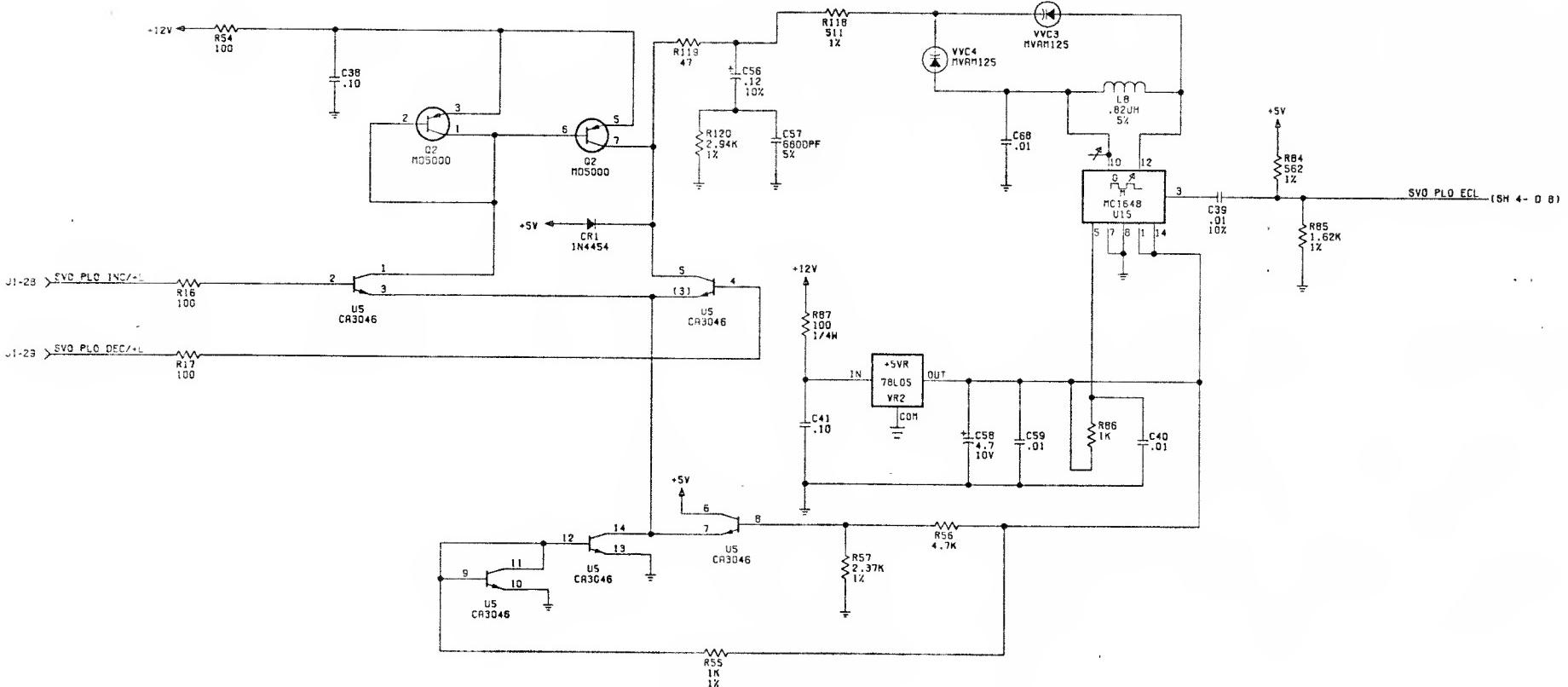
REV X02 11-12-85 TP



BRONETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DATE 10-30-85	TITLE SCH. WREN 3 DATA	SIZE D	DRAWING NUMBER 77764110 101	CD REV SHEET 7
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8 7 6 5 4 3 2 1 DISTR A24-SCS 1





MAGNETIC PERIPHERALS INC. A SUBSIDIARY OF CONTROL DATA CORPORATION OKLAHOMA CITY, OKLAHOMA	DATE 10-30-85 DATA SHEET NAME WREN, J7764110 X	TITLE SCH, WREN 3 DATA	SIZE D	DRAWING NUMBER J7764110 101	CO REV 9 F
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8 7 6 5 4 3 2 1

DATA R24-SC5 1